























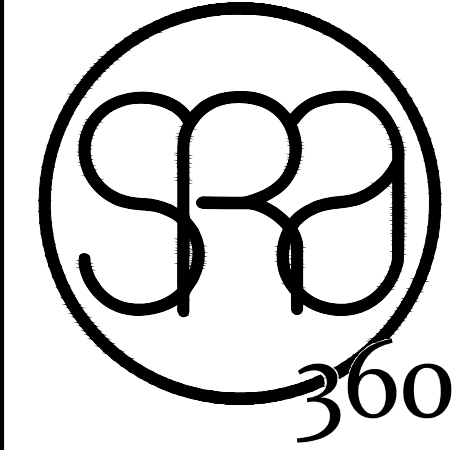
ABBREVIATIONS		ELECTRICAL SYMBOLS LEGEND	
E	EXISTING LIGHT OR DEVICE TO REMAIN	SYMBOLS	DESCRIPTION
ER	EXISTING LIGHT OR DEVICE TO BE REMOVED OR RELOCATED		FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER.
R	RELOCATED LIGHT OR DEVICE	NL 	NIGHT LIGHT -- NOT SWITCHED
N	NEW LIGHT OR DEVICE		CEILING OR WALL MOUNTED FIXTURE
A.F.F.	ABOVE FINISHED FLOOR		JUNCTION BOX
C	CONDUIT		SINGLE/DOUBLE FACED EXIT SIGN -- NOT SWITCHED
E.C.	EMPTY CONDUIT WITH PULLWIRE		DOUBLE HEAD EMERGENCY LIGHT WITH BATTERY BACK UP.
E.D.F.	ELECTRICAL DRINKING FOUNTAIN.	S	SINGLE POLE SWITCH, +48" A.F.F.
GND	GROUND	S ₃	THREE WAY SWITCH, +48" A.F.F.
MLO	MAIN LUGS ONLY	S _o	OUTLET CONTROL INDICATOR
MCB	MAIN CIRCUIT BREAKER	S _D	DIMMER SWITCH
S.E.S.	SERVICE ENTRANCE SECTION	S _{OS}	OCCUPANCY SENSOR SWITCH
WP	WEATHER PROOF	S _T	THERMAL OVERLOAD SWITCH
WR	WATER RESISTANT		DUPLEX RECEPTACLE, +18" A.F.F.
U.N.O.	UNLESS NOTED OTHERWISE		DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT
	SECURITY CAMERA		250 VOLT RECEPTACLE PER UNIT REQUIREMENTS
	SPEAKER		FOURPLEX RECEPTACLE, +18" A.F.F.
			HALF SWITCHED DUPLEX RECEPTACLE
			POWER/PHONE/DATA FLUSH FLOOR OUTLET
			TELEPHONE/DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4"C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, +18" A.F.F.
			TELEVISION OUTLET PLASTER RING AT +18" A.F.F. (U.N.O.) HUBBELL COVERPLATE, 3/4"C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
			CONDUIT BELOW FLOOR OR UNDERGROUND
			CONDUIT IN WALL OR ABOVE CEILING
		LA 	HOMERUN TO PANEL (SEE GROUNDING NOTE)
			MOTOR CONNECTION
			DISCONNECT SWITCH
			DUCT SMOKE DETECTOR
*** ALL SYMBOLS ON LEGEND MAY NOT APPLY TO DRAWING(S). ***			

ELECTRICAL SPECIFICATION

- A. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- B. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- C. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
- D. PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
- E. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- F. ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2". MC CABLE WILL BE ALLOWED WHERE APPROVED BY LOCAL AUTHORITIES AND BUILDING OWNER. RACEWAYS RUN ACROSS ROOF SHALL BE MINIMUM 4" ABOVE ROOF.
- G. BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. EXTERIOR WIRING SHALL BE THWN-2. PANEL FEEDERS. SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12. PER 2017 NEC SEPARATE NEUTRALS ARE TO BE PROVIDED FOR EACH CIRCUIT OR PROVIDE MULTI-POLE HANDLE TIE FOR EACH MULTI-WIRE CIRCUIT
- H. PROVIDE CODE SIZED BOND WIRE IN ALL CONDUITS.
- I. ALL ELECTRICAL EQUIPMENT SHALL BE NEW, U.L. APPROVED AND COMMERCIAL GRADE.
- J. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- K. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ONE (1) SET OF AS-BUILT DRAWINGS.
- L. PROVIDE NEW PANEL DIRECTORIES INDICATING SPECIFIC CIRCUIT INFORMATION TO DISTINGUISH EACH CIRCUIT FROM ANY OTHER PER NEC.
- M. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION OF DEVICES, WIRE & CONDUIT, WHERE THESE ITEMS ARE NO LONGER USED ALL UNUSED WIRE SHALL BE REMOVED BACK TO THE PANEL. ANY DOWNSTREAM EQUIPMENT TO REMAIN IN USE SHALL BE RECONNECTED.

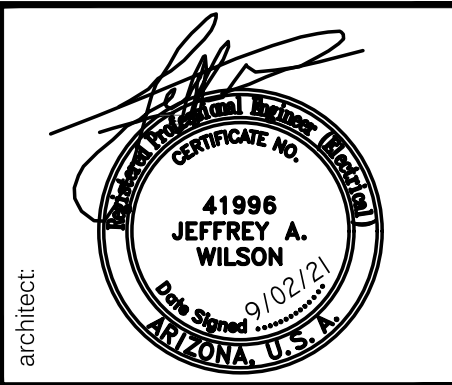
FIRE ALARM NOTE

FIRE ALARM SYSTEM MODIFICATIONS IS INCLUDED IN THIS PROJECT & SHALL BE A DEFERRED SUBMITTAL. ANY DEVICES SHOWN ON THE ELECTRICAL PLANS ARE FOR BID PURPOSES ONLY, AND NOT FOR CONSTRUCTION. PLANS DO NOT SHOW ALL FIRE ALARM DEVICES REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT FIRE ALARM REQUIREMENTS, INCLUDING ANY MODIFICATIONS OR UPGRADES NECESSARY TO THE EXISTING SYSTEM, WITH LANDLORD AND AUTHORITY HAVING JURISDICTION. CONTRACTOR IS TO PROVIDE COMPLETE DWGS & ALL ALL COSTS SHALL BE INCLUDED IN THE BID. FIRE ALARM DEVICES ARE TO BE COMPATIBLE WITH LANDLORDS FIRE ALARM SYSTEM. IF ENGINEERED FIRE ALARM DRAWINGS ARE REQUIRED, THEY ARE TO BE PREPARED BY A LOCAL, LICENSED FIRE ALARM CONTRACTOR AND SUBMITTED TO THE LANDLORD AND AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO ANY WORK COMMENCEMENT.



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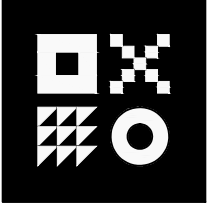
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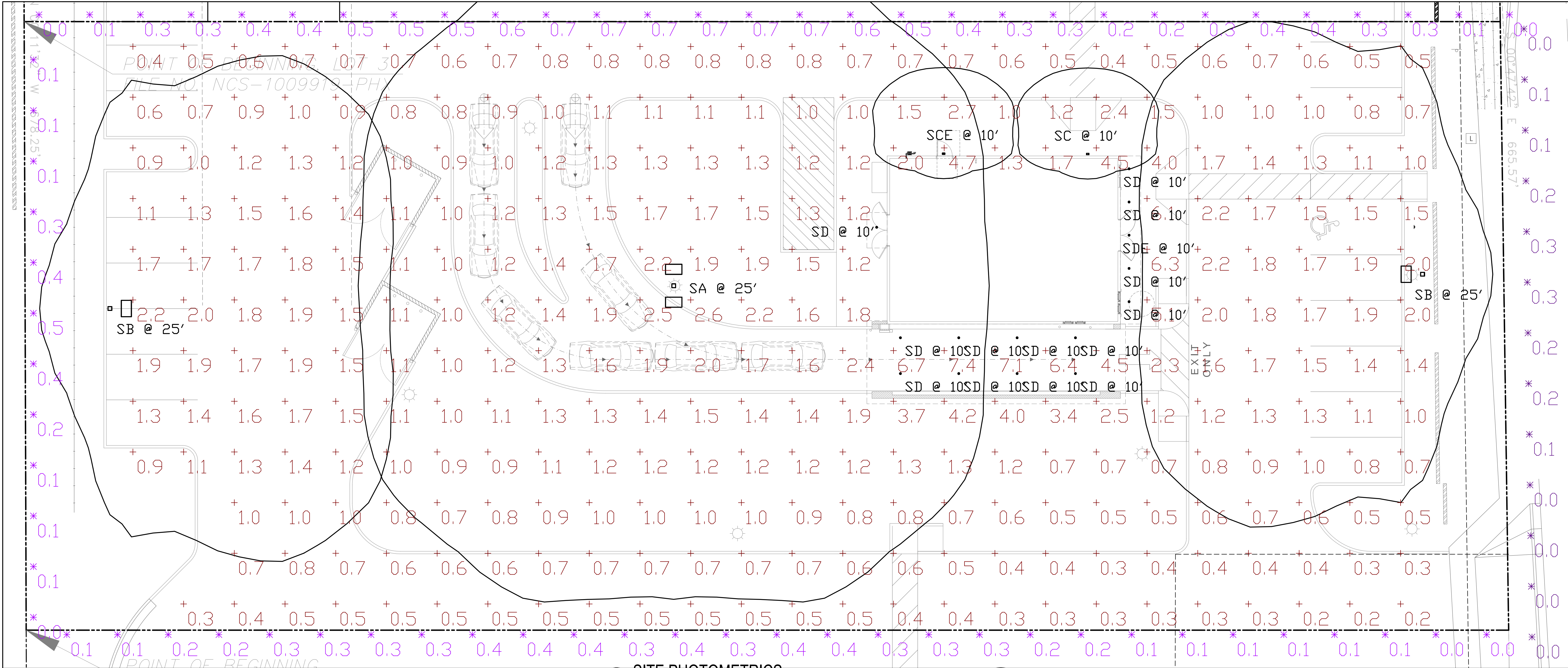
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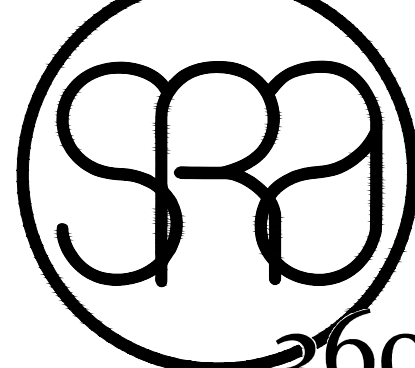
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Schedule										
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	SA	1	Lithonia Lighting	<2> DSX0 LED P5 40K T5W MVOLT SPA <FINISH> / SSS 22.5' W/2.5' BASE	TWIN-HEAD DSX0 LED P5 40K T5W MVOLT	LED - 4000K	DSX0_LED_P5_40K_T5W_MVOLT.ies	12047	0.91	178
	SB	2	Lithonia Lighting	DSX0 LED P5 40K TFTM MVOLT SPA HS <FINISH> / SSS 22.5' W/2.5' BASE	DSX0 LED P5 40K TFTM MVOLT with houseside shield	LED - 4000K	DSX0_LED_P5_40K_TFTM_MVOLT_HS.ies	9119	0.91	89
	SC	1	Lithonia Lighting	WDGE1 LED P1 30K 80CRI VF <FINISH>	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC	LED - 3000K	WDGE1_LED_P1_30K_80CRI_VF.ies	1161	0.91	10.0002
	SCE	1	Lithonia Lighting	WDGE1 LED P1 30K 80CRI VF E4WH <FINISH>	WDGE1 LED WITH P1 - PERFORMANCE PACKAGE, 3000K, 80CRI, VISUAL COMFORT FORWARD OPTIC W/ EM BATTERY PACK	LED - 3000K	WDGE1_LED_P1_30K_80CRI_VF.ies	1161	0.91	10.0002
	SD	13	DMF LIGHTING	DRDH N JD / DRD5S 4 R 10 9 30	4IN SURFACE MOUNTED LED DOWNLIGHT	LED - 3000K	DRD5S-4R-10930.ies	1015	0.91	11.8
	SDE	1	DMF LIGHTING	DRDH N JD 10DSEM / DRD5S 4 R 10 9 30 EM	4IN SURFACE MOUNTED LED DOWNLIGHT W/EM BATTERY PACK	LED - 3000K	DRD5S-4R-10930.ies	1015	0.91	11.8

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE @ GUADALUPE - FC @ 3' AFG	✕	0.1 fc	0.3 fc	0.0 fc	N/A	N/A
PROPERTY LINE WITHIN SITE - FC @ 3' AFG	✕	0.3 fc	0.7 fc	0.0 fc	N/A	N/A
SITE - FC @ GRADE	+	1.3 fc	7.4 fc	0.2 fc	37.0:1	6.5:1



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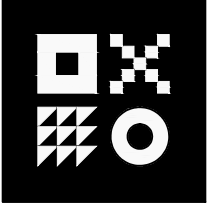
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SITE PHOTOMETRICS


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D-Series Size 0
LED Area Luminaire

d'series

Specifications

EPA: 0.95 ft² (0.09 m²)

Length: 26" (66.0 cm)

Width: 13" (33.0 cm)

Height: 3" (7.62 cm)

Height: 7" (17.8 cm)

Weight: 1.6 lbs (0.72 kg)

Weight (max): 2.25 kg

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

Series	LEDs	Color Temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics P1 P5 P2 P6 P3 P7 P4 Rotated optics P10 P12 P11 P13	30K 3000 K 40K 4000 K 50K 5000 K	T15 Type I short (Automotive) T25 Type I short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium T7TM Forward throw medium T5VS Type V very short	T5S Type V short ¹ T2M Type V medium ¹ T3M Type V wide ¹ T3S Type III short BLC Backlight control ⁴ LCCO Left corner cutoff ¹¹ RCCO Right corner cutoff ¹¹ 277V 480V	Shipped included SPA Square pole mounting RPA Round pole mounting ¹¹ WBA Wall bracket ¹ SPUMBA Square pole universal mounting adaptor ¹¹ RPMBA Round pole universal mounting adaptor ¹¹ Shipped separately KMA8 DDBXD U Most arm mounting bracket adaptor (specify finish) ¹²

Control options		Other options	Finish (optional)
Shipped installed NLTAIR2 Right AIR generation 2 enabled ^{14,15} PIRHN Network, high/low motion/ambient sensor ¹⁶ PER NEMA twist-lock receptacle only (control ordered separately) ¹⁸ PER5 Five-pin receptacle only (control ordered separately) ^{18,19} PER7 Seven-pin receptacle only (heads not fused) (control ordered separately) ¹⁸ DMG 0-10V dimming entered out back of housing for external control (control ordered separately) ¹	PIR High-flow, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5K ^{16,20} PIRHN High-flow, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5K ^{16,20} PIRHNFCV High-flow, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1K ^{16,20} PIRHNFCV High-flow, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1K ^{16,20} FAO Field adjustable output ¹¹	Shipped installed HS House-side shield ²¹ SF Single fuse (120, 277, 347V) ¹ DF Double fuse (208, 240, 480V) ¹ L90 Left rotated optics ¹ R90 Right rotated optics ¹ DOL Diffused drop lens ²² HA 50°C ambient operation ¹ BAA Buy American ¹ At Compliant Shipped separately B3 Back plates ¹ EGS External glare shield	DOBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWIXD White DOBIXD Textured dark bronze DBLIXD Textured black DNAXD Textured natural aluminum DWIXD Textured white DSIXD Textured sandstone

DRD5S & SurfaceFrame

Surface Mount LED Downlight


New Construction

DRDHUJO Octagonal Junction Box

Project: _____ Type: _____

Product Code: **SD_SDE** Date: _____

Spec Sheet V-04.01.21



- Thinnest-in-class DRD5S delivers the pure, smooth light and the elegant look of a high-end recessed downlight
- Features multiple ratings to meet the demands of a wide range of situations
- Ultra-low profile allows it to install in as little as 2" of ceiling space when 5/8" drywall is used

Application New Construction	Aperture 4" Octagonal Junction Box	
Delivered Lumens 750 lm (9.0W), 1000 lm (12.0W)	Color Quality 90+ CRI, < 3-step SDCM	
Color Temperature 2700K 3000K 3500K	Optics General	
Input Voltage 120/277V	Dimming TRIAC/ELV 5% 0-10V 1%	Emergency Lighting Optional Emergency LED Driver with integrated Test Switch for lighting up to 90 minutes in event of power failure
Shape Round, Square	Finish White	Module Ratings UL Closet Rating Compliant (750 lm only)
Housing Ratings Code compliant for use in appropriate fire-rated assemblies up to a maximum of 2-hours STO/IC Sound Rated ASTM E283 Certified Air Tight IC (Insulation Contact) Rated		UL Listed for Wet Location
Standards A8 C90 C108 C115 C118 C119 C120 C121 C122 C123 C124 C125 C126 C127 C128 C129 C130 C131 C132 C133 C134 C135 C136 C137 C138 C139 C140 C141 C142 C143 C144 C145 C146 C147 C148 C149 C150 C151 C152 C153 C154 C155 C156 C157 C158 C159 C160 C161 C162 C163 C164 C165 C166 C167 C168 C169 C170 C171 C172 C173 C174 C175 C176 C177 C178 C179 C180 C181 C182 C183 C184 C185 C186 C187 C188 C189 C190 C191 C192 C193 C194 C195 C196 C197 C198 C199 C200 C201 C202 C203 C204 C205 C206 C207 C208 C209 C210 C211 C212 C213 C214 C215 C216 C217 C218 C219 C220 C221 C222 C223 C224 C225 C226 C227 C228 C229 C230 C231 C232 C233 C234 C235 C236 C237 C238 C239 C240 C241 C242 C243 C244 C245 C246 C247 C248 C249 C250 C251 C252 C253 C254 C255 C256 C257 C258 C259 C260 C261 C262 C263 C264 C265 C266 C267 C268 C269 C270 C271 C272 C273 C274 C275 C276 C277 C278 C279 C280 C281 C282 C283 C284 C285 C286 C287 C288 C289 C290 C291 C292 C293 C294 C295 C296 C297 C298 C299 C300 C301 C302 C303 C304 C305 C306 C307 C308 C309 C310 C311 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C1093 C1094 C1095 C1096 C1097 C1098 C1099 C1100 C1101 C1102 C1103 C1104 C1105 C1106 C1107 C1108 C1109 C1110 C1111 C1112 C1113 C1114 C1115 C1116 C1117 C1118 C1119 C1120 C1121 C1122 C1123 C1124 C1125 C1126 C1127 C1128 C1129 C1130 C1131 C1132 C1133 C1134 C1135 C1136 C1137 C1138 C1139 C1140 C1141 C1142 C1143 C1144 C1145 C1146 C1147 C1148 C1149 C1150 C1151 C1152 C1153 C1154 C1155 C1156 C1157 C1158 C1159 C1160 C1161 C1162 C1163 C1164 C1165 C1166 C1167 C1168 C1169 C1170 C1171 C1172 C1173 C1174 C1175 C1176 C1177 C1178 C1179 C1180 C1181 C1182 C1183 C1184 C1185 C1186 C1187 C1188 C1189 C1190 C1191 C1192 C1193 C1194 C1195 C1196 C1197 C1198 C1199 C1200 C1201 C1202 C1203 C1204 C1205 C1206 C1207 C1208 C1209 C1210 C1211 C1212 C1213 C1214 C1215 C1216 C1217 C1218 C1219 C1220 C1221 C1222 C1223 C1224 C1225 C1226 C1227 C1228 C1229 C1230 C1231 C1232 C1233 C1234 C1235 C1236 C1237 C1238 C1239 C1240 C1241 C1242 C1243 C1244 C1245 C1246 C1247 C1248 C1249 C1250 C1251 C1252 C1253 C1254 C1255 C1256 C1257 C1258 C1259 C1260 C1261 C1262 C1263 C1264 C1265 C1266 C1267 C1268 C1269 C1270 C1271 C1272 C1273 C1274 C1275 C1276 C1277 C1278 C1279 C1280 C1281 C1282 C1283 C1284 C1285 C1286 C1287 C1288 C1289 C1290 C1291 C1292 C1293 C1294 C1295 C1296 C1297 C1298 C1299 C1300 C1301 C1302 C1303 C1304 C1305 C1306 C1307 C1308 C1309 C1310 C1311 C1312 C1313 C1314 C1315 C1316 C1317 C1318 C1319 C1320 C1321 C1322 C1323 C1324 C1325 C1326 C1327 C1328 C1329 C1330 C1331 C1332 C1333 C1334 C1335 C1336 C1337 C1338 C1339 C1340 C1341 C1342 C1343 C1344 C1345 C1346 C1347 C1348 C1349 C1350 C1351 C1352 C1353 C1354 C1355 C1356 C1357 C1358 C1359 C1360 C1361 C1362 C1363 C1364 C1365 C1366 C1367 C1368 C1369 C1370 C1371 C1372 C1373 C1374 C1375 C1376 C1377 C1378 C1379 C1380 C1381 C1382 C1383 C1384 C1385 C1386 C1387 C1388 C1389 C1390 C1391 C1392 C1393 C1394 C1395 C1396 C1397 C1398 C1399 C1400 C1401 C1402 C1403 C1404 C1405 C1406 C1407 C1408 C1409 C1410 C1411 C1412 C1413 C1414 C1415 C1416 C1417 C1418 C1419 C1420 C1421 C1422 C1423 C1424 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C1591 C1592 C1593 C1594 C1595 C1596 C1597 C1598 C1599 C1600 C1601 C1602 C1603 C1604 C1605 C1606 C1607 C1608 C1609 C1610 C1611 C1612 C1613 C1614 C1615 C1616 C1617 C1618 C1619 C1620 C1621 C1622 C1623 C1624 C1625 C1626 C1627 C1628 C1629 C1630 C1631 C1632 C1633 C1634 C1635 C1636		

DRD5S & SurfaceFrame

Surface Mount LED Downlight

New Construction
DRDHNJO Octagonal Junction Box



- Thinnest-in-class DRD5S delivers the pure, smooth light and the elegant look of a high-end recessed downlight
- Features multiple ratings to meet the demands of a wide range of situations
- Ultra-low profile allows it to install in as little as 2" of ceiling space when 5/8" drywall is used

Spec Sheet V-06.15.20

Application New Construction		Aperture 4" Octagonal Junction Box	
Delivered Lumens 750 lm (9.0W), 1000 lm (12.0W)		Color Quality 90+ CRI, < 3-step SDCM	
Color Temperature <div><div></div>2700K</div> <div><div></div>3000K</div>		Optics <div><div></div>General</div>	
Input Voltage 120/277V	Dimming TRIAC/ELV 5% 0-10V 1%	Emergency Lighting Optional Emergency LED Driver with integrated Test Switch for lighting up to 90 minutes in event of power failure	
Shape Round, Square		Finish White	
Housing Ratings <div><div><div></div>Code compliant for use in appropriate fire-rated assemblies up to a maximum of 2-hours</div><div><div></div>STC/IIC Sound Rated</div><div><div></div>ASTM E283 Certified Air Tight</div><div><div></div>IC (Insulation Contact) Rated</div></div>			Module Ratings <div><div><div></div>UL Listed for Wet Location</div></div>
Standards <div><div><div>JA8</div><div>TITLE 24</div></div><div><div>ENERGY STAR</div></div><div><div>UL</div><div>US LISTED</div></div></div>		Guarantee 50,000 hrs 5 years	
		Additional Options <div><div><div></div>Non-Conductive Dead Front</div></div>	



PRODUCT BUILDER

HOUSING

PRODUCT CODE		APPLICATION		APERTURE		OPTION	
<input type="text"/>		<input type="text"/>		<input type="text"/>		<input type="text"/>	
DRDH	Housing	N	New Construction	JO	SurfaceFrame Octagonal Junction Box	[Blank]	Integrated Driver
						70SEM	EM Driver ¹ , 0-10V, 750 lm
						100SEM	EM Driver ¹ , 0-10V, 1000 lm

LED MODULE

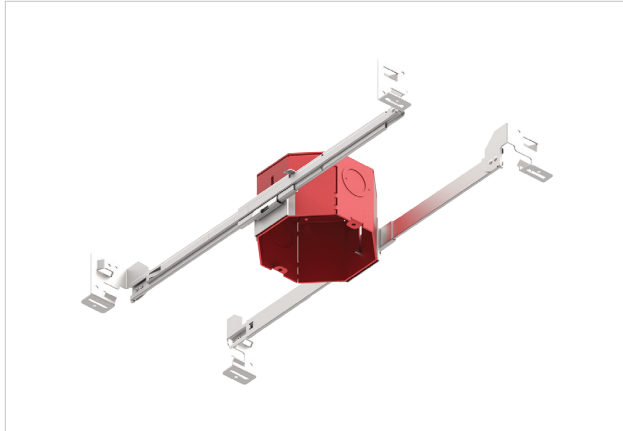
PRODUCT CODE		APERTURE		SHAPE		LUMENS		CRI		CCT		DRIVER	
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DRD5S	Module	4	4" Aperture	R	Round	07	750 lm	9	90+ CRI	27	2700K	[Blank]	Integrated TRIAC/ELV
				S	Square	10	1000 lm			30	3000K	O	Integrated 0-10V
												DF	Integrated TRIAC/ELV, Non-Conductive ²
												ODF	Integrated 0-10V, Non-Conductive ²
												EM	Emergency ¹ w/ Test Switch

¹ EM option (housing) and Emergency driver (module) must be selected together

² Only available for Round shape, 750 lm, 2700K or 3000K CCT



HOUSING



SurfaceFrame

New Construction Octagonal Junction Box

DRDHNJO

SUMMARY

JUNCTION BOX: Equipped with (4) 1/2" trade size knockouts (two side, two top) to allow straight conduit runs. Approved for 6 (three in, three out) #12 AWG 70°C through wiring conductors.

MOUNTING: Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1"

CEILING: 1/2" up to 1 3/4"

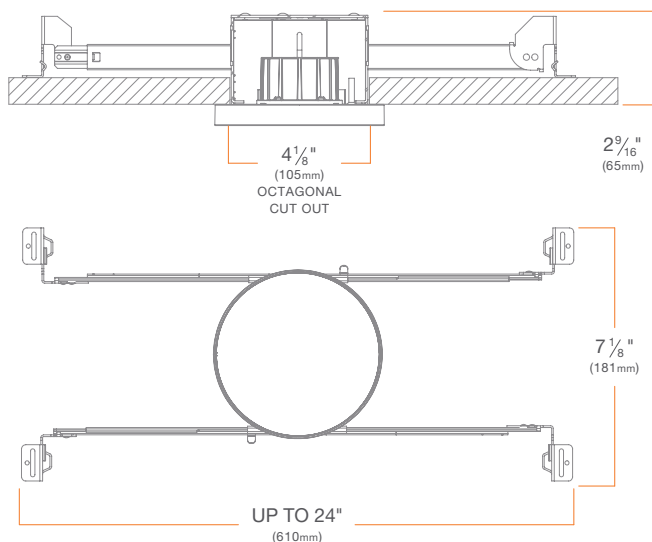
CUTOUT: 4 1/8" (105mm) octagonal opening

LISTINGS: Metallic outlet box certified UL514A, code compliant for use in appropriate fire-rated assemblies for up to 2-hours, STC/IIC Sound Rated, ASTM E283 certified Air Tight, IC (Insulation Contact) rated

WARRANTY: 5 year limited warranty

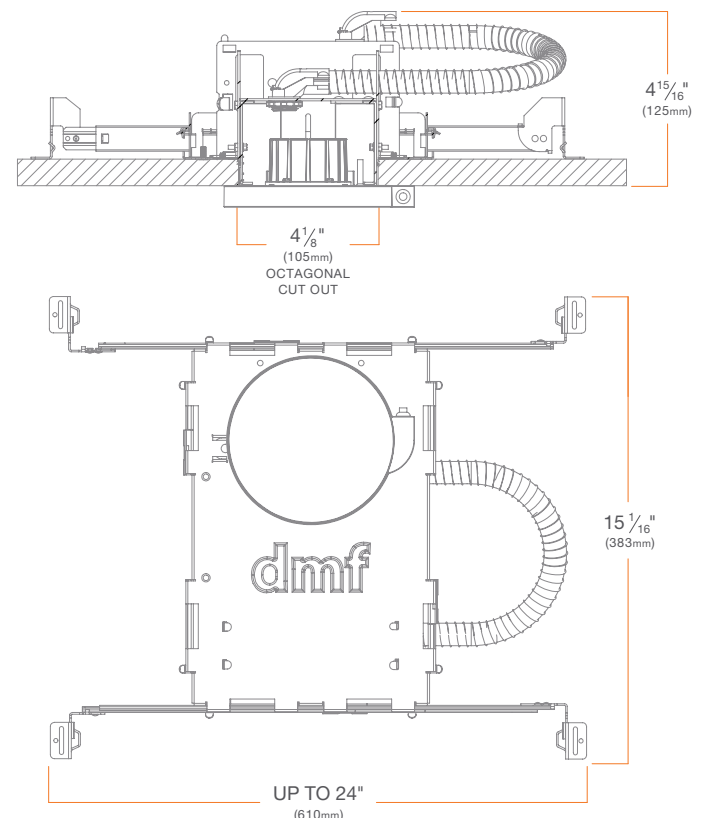
SurfaceFrame

DRDHNJO



SurfaceFrame w/ Emergency Lighting

DRDHNJO EM



MODULE



DRD5S

Surface Mount LED Module

DRD5S

SUMMARY

LED: Optimized LED array

SHAPE: 4" Round, 4" Square

MODULE LUMENS: 750 lm (9.0W), 1000 lm (12.0W)

COLOR QUALITY: 90+ CRI, less than 3-step SDCM

CCT: 2700K, 3000K

INPUT VOLTAGE: 120/277V

DIMMING: Down to less than 5% for TRIAC/ELV at 120V, 1% for 0-10V at 120/277V

MAX INPUT CURRENT (120V): 0.075 amps, 0.1047 amps

MAX INPUT CURRENT (277V): 0.034 amps, 0.047 amps

POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

AMBIENT OPERATING TEMPERATURE: -20°C to 40°C

EMERGENCY LIGHTING: Optional Emergency LED Driver with Integrated Test Switch for lighting up to 90 minutes in event of power failure

PHOTOMETRIC TESTING: Tested in accordance to IESNA LM-79-2008

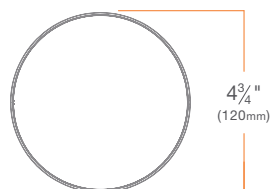
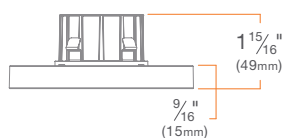
LISTINGS: ENERGY STAR® qualified, California Title 24 2016 JA8 compliant, UL Listed for Wet Location, cULus Listed

LIFETIME: 50,000 hours at 70% lumen maintenance

WARRANTY: 5 year limited warranty

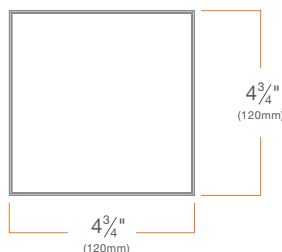
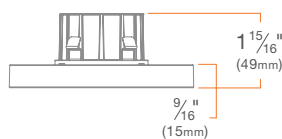
4" Round

DRD5S4R



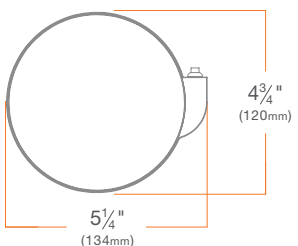
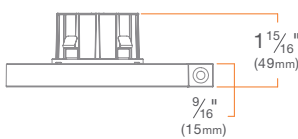
4" Square

DRD5S4S



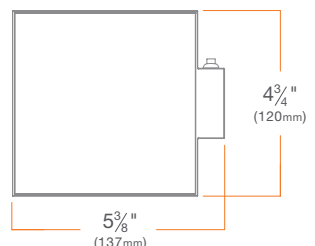
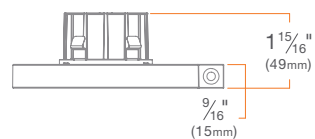
4" Round w/ EM Test Switch

DRD5S4R EM



4" Square w/ EM Test Switch

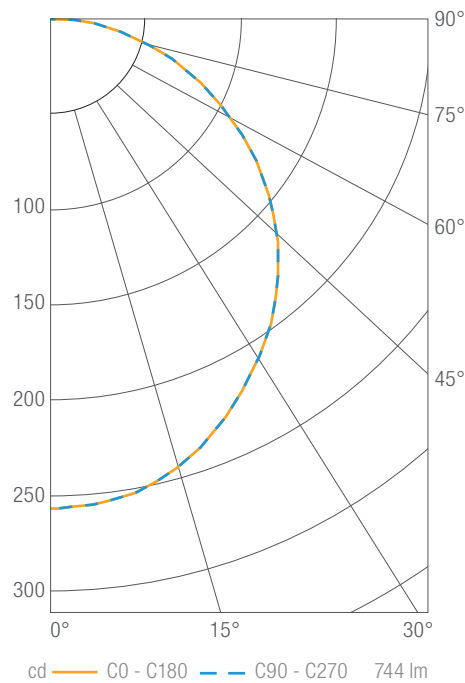
DRD5S4S EM





PHOTOMETRY

DRD5S 4" Round, 750 lm, 90 CRI, 3000K **DRD5S4R07930**



Luminous Intensity

Gamma	C 0°
0°	258
5°	256
10°	253
15°	247
20°	237
25°	226
30°	213
35°	200
40°	185
45°	169
50°	151
55°	132
60°	113
65°	93
70°	73
75°	54
80°	35
85°	18
90°	6

Values in candela

Zonal Lumen Summary

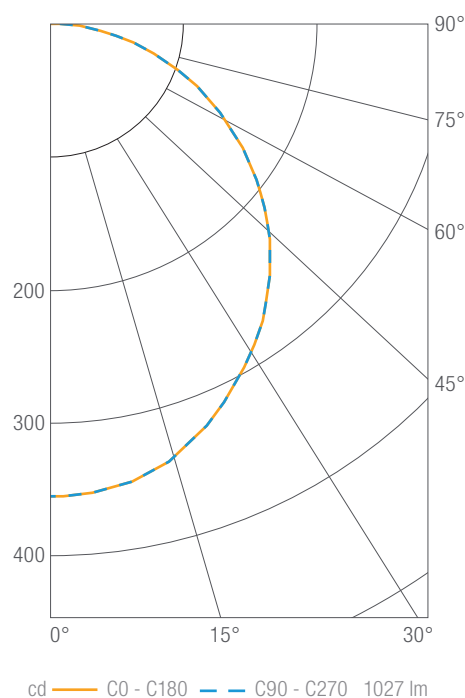
Zone	Lumens	Luminaire %
0-30	199	27
0-40	324	44
0-60	573	77
0-90	744	100
0-180	744	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	29	8.8'
6.0'	7	17.7'
9.0'	3	26.5'
12.0'	2	35.3'

Beam Angle: 70°

DRD5S 4" Round, 1000 lm, 90 CRI, 3000K **DRD5S4R10930**



Luminous Intensity

Gamma	C 0°
0°	356
5°	354
10°	349
15°	340
20°	327
25°	312
30°	294
35°	276
40°	255
45°	233
50°	209
55°	183
60°	155
65°	128
70°	101
75°	74
80°	48
85°	25
90°	9

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	274	27
0-40	447	44
0-60	790	77
0-90	1027	100
0-180	1027	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3.0'	40	8.8'
6.0'	10	17.7'
9.0'	4	26.5'
12.0'	2	35.3'

Beam Angle: 63°

DIMMER COMPATIBILITY

Recommended Phase-control Dimmers (Dims down to 5% nominal measured light output)

Brand	Series	Model Number	Max Load 750lm DRD5S4R07	Max Load 1000lm DRD5S4R10
Cooper	Aspire	9573	29	23
Leviton	Vizia	VPE06	64	48
Lutron	CL Series	AYCL-253, DVCL-253	26	20
	Grafik Eye 3000	QSGR-3P, QSGR-6P	31	24
	Grafik Sys / Homeworks	RPM-4U	44	35
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	16	12

Compatible Phase-control Dimmers¹ (Dims down to 20% nominal measured light output)

Brand	Series	Model Number	Max Load 750lm DRD5S4R07	Max Load 1000lm DRD5S4R10
Cooper	Aspire	9573	29	23
	Decorator	DLC03P, DAL06P	29	23
Legrand	Adorne	ADTP703	48	38
	Digital Light Management	LMRC-221	250	195
Leviton	IllumaTech	IPE04	32	25
	Vizia	VPE04	42	32
	Vizia	VPE06	64	48
Lutron	CL Series	AYCL-153, CTCL-153, DVCL-153, LGCL-513, SCL-153, TGCL-513	15	11
	CL Series	AYCL-253, DVCL-253	26	20
	Grafik Eye 3000	QSGR-3P, QSGR-6P	31	24
	Grafik Sys / Homeworks	RPM-4U	44	35
	Maestro CL	MACL-153M, MSCL-OP153M, MSCL-VP153M	16	12
	Maestro Wireless	MRF2-6ELV, MRF2-6CL	15	12
	Radio RA	RRD-6NA, RRD-6CL, RRD-6D	15	12
	Skylark Contour CL	CTCL-153P	15	12

¹ Dimmer compatibility reflects performance compatibility only. Please reference your local codes for application.

**DIMMER COMPATIBILITY****Recommended 0-10V Dimmers** (Dims down to 1% nominal measured light output)

Brand	Series	Model Number	Max Load 750lm DRD5S4R07	Max Load 1000lm DRD5S4R10
Legrand	Titan	CD4FB	200	150
Leviton	IllumaTech	IP710-DLZ	120	90
Lithonia	Synergy	ISD BC	120	90
Lutron	Diva	DVTV	100	75
	Nova	NFTV	200	150
	Nova	NTSTV-DV	100	75
	Vive-PowPak	RMJS-8T-DV-B	60	45
Watt Stopper	Micro-Decorator	DCLV1	60	45
	DLM	LMRC-211	100	75



SurfaceFrame Options

Shallow Recessed LED Downlight

DRD2 & SurfaceFrame

DRDHNJO Octagonal Junction Box

DRD2 & SurfaceFrame Alt/EM

Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

Apex Series Shallow Recessed LED Downlight

DRD2X & SurfaceFrame

DRDHNJO Octagonal Junction Box

DRD2X & SurfaceFrame Alt/EM

Alternate Dimming and/or Emergency Lighting

DRDHNJO Octagonal Junction Box

Surface Mount LED Downlight

DRD5S & SurfaceFrame

DRDHNJO Octagonal Junction Box



WST LED

Architectural Wall Sconce



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

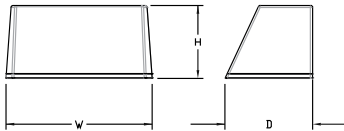
Luminaire

Height: 8-1/2"
(21.59 cm)

Width: 17"
(43.18 cm)

Depth: 10-3/16"
(25.9 cm)

Weight: 20 lbs
(9.1 kg)

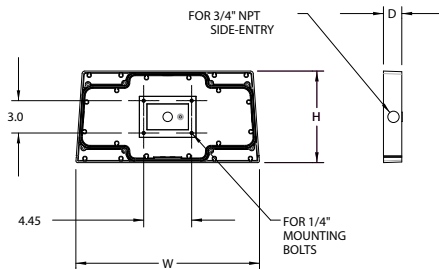


Optional Back Box (PBBW)

Height: 8.49"
(21.56 cm)

Width: 17.01"
(43.21 cm)

Depth: 1.70"
(4.32 cm)

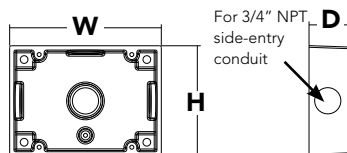


Optional Back Box (BBW)

Height: 4"
(10.2 cm)

Width: 5-1/2"
(14.0 cm)

Depth: 1-1/2"
(3.8 cm)



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

See ordering tree for details.

A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



COMMERCIAL OUTDOOR

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WST-LED
Rev. 06/09/20

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED						
Series	Performance Package	Color temperature	Distribution	Voltage		Mounting
WST LED	P1 1,500 Lumen package	27K 2700 K	VF Visual comfort forward throw	MVOLT ¹	277 ²	Shipped included (blank) Surface mounting bracket Shipped separately BBW Surface-mounted back box ³ PBBW Premium surface-mounted back box ^{3,4}
	P2 3,000 Lumen package	30K 3000 K	VW Visual comfort wide	120 ²	347 ²	
	P3 6,000 Lumen package	40K 4000 K		208 ²	480 ²	
		50K 5000 K		240 ²		

Options				Finish (required)	
NLTAIR2 PIR	nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights ^{5,6}	E7WC	Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{11,12}	DDBXD	Dark bronze
NLTAIR2 PIRH	nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights ^{5,6}	E7WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{11,13}	DBLXD	Black
PE	Photoelectric cell, button type ⁷	E20WH	Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ¹¹	DNAXD	Natural aluminum
PER	NEMA twist-lock receptacle only (controls ordered separate) ⁸	E20WC	Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{11,12}	DWHXD	White
PER5	Five-wire receptacle only (controls ordered separate) ⁸	E23WHR	Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{11,12,14}	DSSXD	Sandstone
PER7	Seven-wire receptacle only (controls ordered separate) ⁸	LCE	Left side conduit entry ¹⁵	DDBTXD	Textured dark bronze
PIR	Motion/Ambient Light Sensor, 8'-15' mounting height ^{5,6}	RCE	Right side conduit entry ¹⁵	DBLBXD	Textured black
PIR1FC3V	Motion/ambient sensor, 8'-15' mounting height, ambient sensor enabled at 1fc ^{5,6}	Shipped separately		DNATXD	Textured natural aluminum
PIRH	180° motion/ambient light sensor, 15'-30' mounting height ^{5,6}	RBPW	Retrofit back plate ³	DWHGXD	Textured white
PIRH1FC3V	Motion/ambient sensor, 15'-30' mounting height, ambient sensor enabled at 1fc ^{5,6}	VG	Vandal guard ¹⁵	DSSTXD	Textured sandstone
SF	Single fuse (120, 277, 347V) ²	WG	Wire guard ¹⁵		
DF	Double fuse (208, 240, 480V) ²				
DS	Dual switching ⁹				
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) ¹⁰				
E7WH	Emergency battery backup, Non CEC compliant (7W) ¹¹				

Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WSBBW DDBTXD U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁷
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁷
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁷

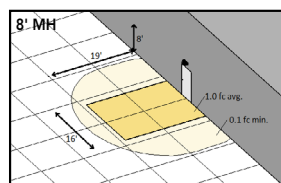
NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as a separate accessory; see accessories information.
- Top conduit entry standard.
- Not available with VG or WG. See PER Table.
- Reference Motion Sensor table.
- Need to specify 120, 208, 240 or 277 voltage.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Not available with Emergency options, PE or PER options.
- DMG option not available with standalone or networked sensors/controls.
- Not available with 347/480V.
- Battery pack rated for -20° to 40°C.
- Comes with PBBW.
- Warranty period is 3-years.
- Not available with BBW.
- Must order with fixture; not an accessory.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table.

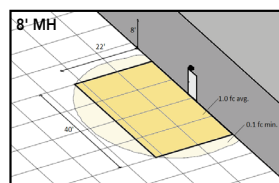
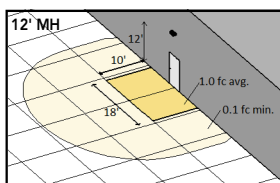
Emergency Battery Operation

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#). The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions. The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

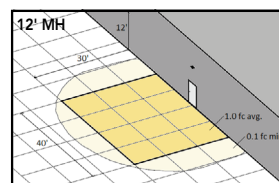
10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
P2	25	0.21	0.13	0.11	0.1	---	---
	30	---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
P3	50	0.42	0.24	0.21	0.19	---	---
	56	---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min

*for use with site wide Dusk to Dawn control

PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion	✗	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof*	✗	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof* with Motion	✗	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture

✓ Recommended

✗ Will not work

⚠ Alternate

*Futureproof means: Ability to change controls in the future.

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Performance Package	System Watts (MVOLT ¹)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
		VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
		VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134



COMMERCIAL OUTDOOR

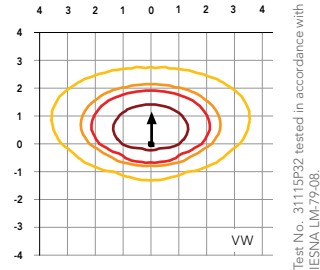
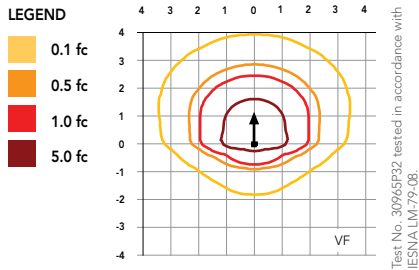
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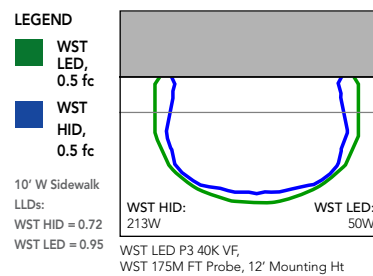
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [WST LED homepage](#).

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



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