

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P563207

Luminaire Tested: **SQ4-PP3-025U-075D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563207
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

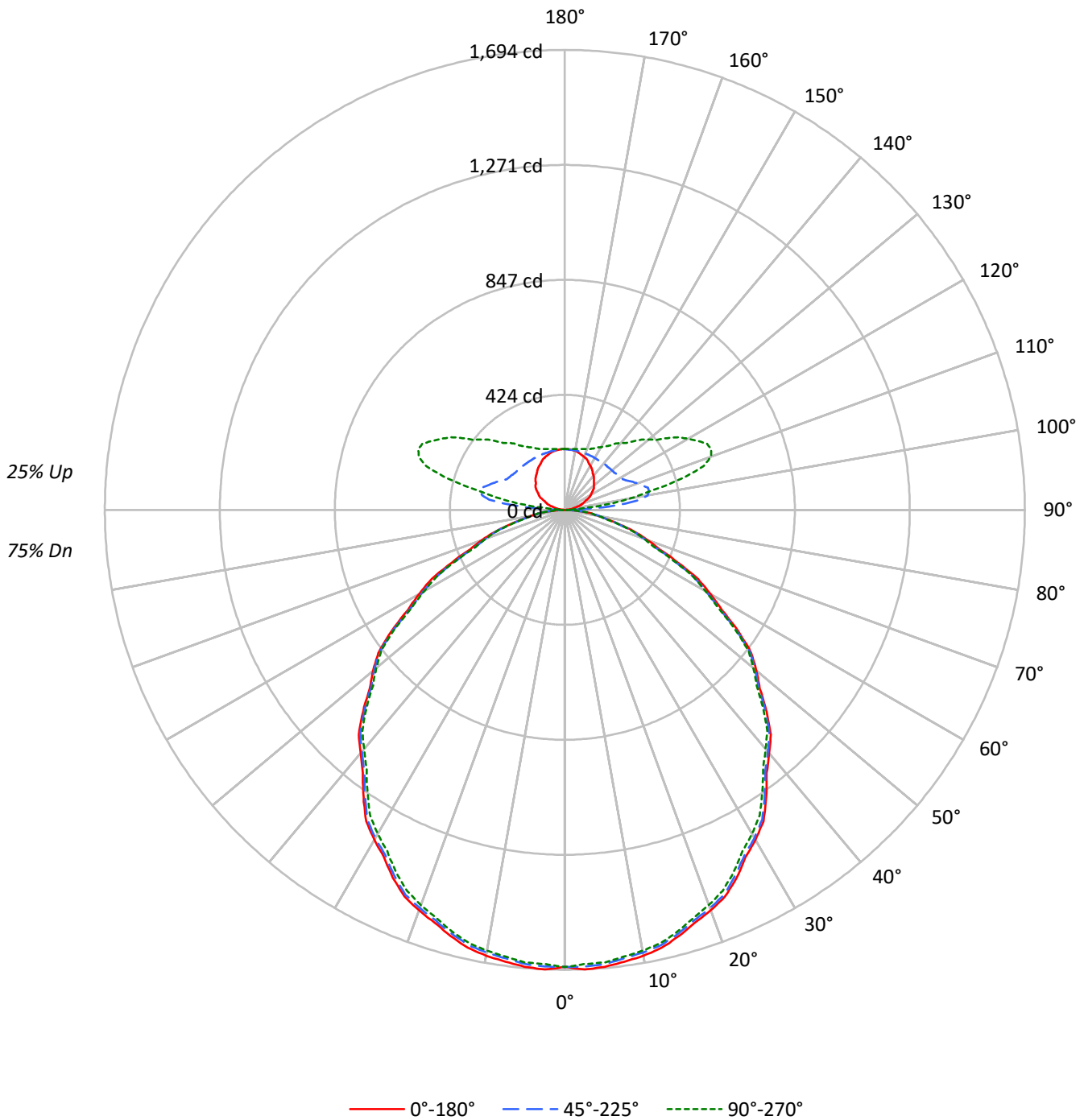
Lumens per Lamp: N/A
Luminaire Lumens: 5759.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P563207
CATALOG NUMBER: SQ4-PP3-025U-075D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P563207

CATALOG NUMBER: SQ4-PP3-025U-075D-835-1D-UNV-STD-W-6

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54				
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46				
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39				
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34				
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30				
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27				
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24				
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22				
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10142
25°	10156	10086	9985
30°	9967	9916	9789
35°	9707	9640	9519
40°	9397	9337	9230
45°	9140	9076	8986
50°	8812	8756	8670
55°	8356	8245	8182
60°	7606	7388	7353
65°	6701	6421	6401
70°	5785	5546	5546
75°	4981	4910	4841
80°	4392	4442	4339
85°	3437	3747	3747



TEST NUMBER: P563207

CATALOG NUMBER: SQ4-PP3-025U-075D-835-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.8
10°-20°	454.6	7.9
20°-30°	681.0	11.8
30°-40°	798.8	13.9
40°-50°	801.2	13.9
50°-60°	683.5	11.9
60°-70°	445.8	7.7
70°-80°	223.6	3.9
80°-90°	63.1	1.1
90°-100°	108.9	1.9
100°-110°	286.4	5.0
110°-120°	297.0	5.2
120°-130°	238.2	4.1
130°-140°	186.9	3.2
140°-150°	143.5	2.5
150°-160°	103.3	1.8
160°-170°	63.2	1.1
170°-180°	21.4	0.4
0°-30°	1294.8	22.5
0°-40°	2093.6	36.3
0°-60°	3578.4	62.1
0°-90°	4310.9	74.8
90°-120°	692.3	12.0
90°-150°	1261.0	21.9
90°-180°	1449.0	25.2
0°-180°	5759.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1690	1674	1679	1674	1674	160
15°	1625	1609	1616	1610	1607	458
25°	1496	1479	1486	1473	1471	688
35°	1293	1280	1284	1269	1268	808
45°	1051	1044	1043	1033	1033	809
55°	779	776	769	764	763	692
65°	460	452	441	438	440	459
75°	210	210	207	205	204	227
85°	49	53	53	53	53	57
90°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

TEST NUMBER: P563207

CATALOG NUMBER: SQ4-PP3-025U-075D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.8	1683.8	1683.8	1683.8	1683.8
2.5°	1694.4	1680.6	1683.8	1681.3	1674.4
5°	1689.7	1673.9	1679.4	1673.5	1673.5
7.5°	1678.2	1660.9	1666.4	1660.5	1660.2
10°	1667.6	1650.3	1655.8	1649.8	1648.4
12.5°	1652.2	1634.9	1641.6	1634.5	1634.2
15°	1624.8	1608.9	1615.9	1610.0	1607.1
17.5°	1593.8	1576.5	1584.9	1576.7	1575.5
20°	1570.2	1552.9	1561.3	1549.5	1549.5
22.5°	1541.9	1524.5	1534.2	1518.8	1518.8
25°	1496.4	1479.1	1486.1	1472.8	1471.3
27.5°	1442.4	1425.4	1432.7	1417.6	1417.3
30°	1403.4	1387.6	1396.1	1379.8	1378.3
32.5°	1360.9	1346.2	1352.4	1336.1	1334.7
35°	1292.8	1279.8	1283.9	1269.1	1267.7
37.5°	1221.0	1207.8	1212.5	1199.8	1199.2
40°	1170.3	1161.6	1162.9	1152.5	1149.6
42.5°	1123.0	1113.2	1114.5	1104.1	1103.6
45°	1050.7	1043.5	1043.4	1033.0	1033.0
47.5°	974.0	968.5	966.9	958.3	958.1
50°	920.9	916.5	915.0	907.5	906.1
52.5°	865.4	863.4	858.3	852.1	851.8
55°	779.2	776.3	768.9	764.4	763.0
57.5°	685.6	679.9	671.5	665.0	666.2
60°	618.3	612.6	600.6	597.7	597.7
62.5°	553.4	546.5	534.5	530.4	532.7
65°	460.4	451.8	441.2	438.3	439.8
67.5°	376.0	368.2	356.8	356.8	355.7
70°	321.7	317.4	308.4	308.4	308.4
72.5°	273.3	271.3	264.7	264.7	263.6
75°	209.6	209.6	206.6	205.1	203.7
77.5°	157.0	157.6	156.1	154.6	152.0
80°	124.0	126.8	125.4	123.9	122.5
82.5°	93.3	96.2	95.9	93.3	93.0
85°	48.7	53.0	53.1	53.1	53.1
87.5°	13.3	18.5	21.2	20.1	21.2
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



TEST NUMBER: P563207

CATALOG NUMBER: SQ4-PP3-025U-075D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)