

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: P563399

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563399
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

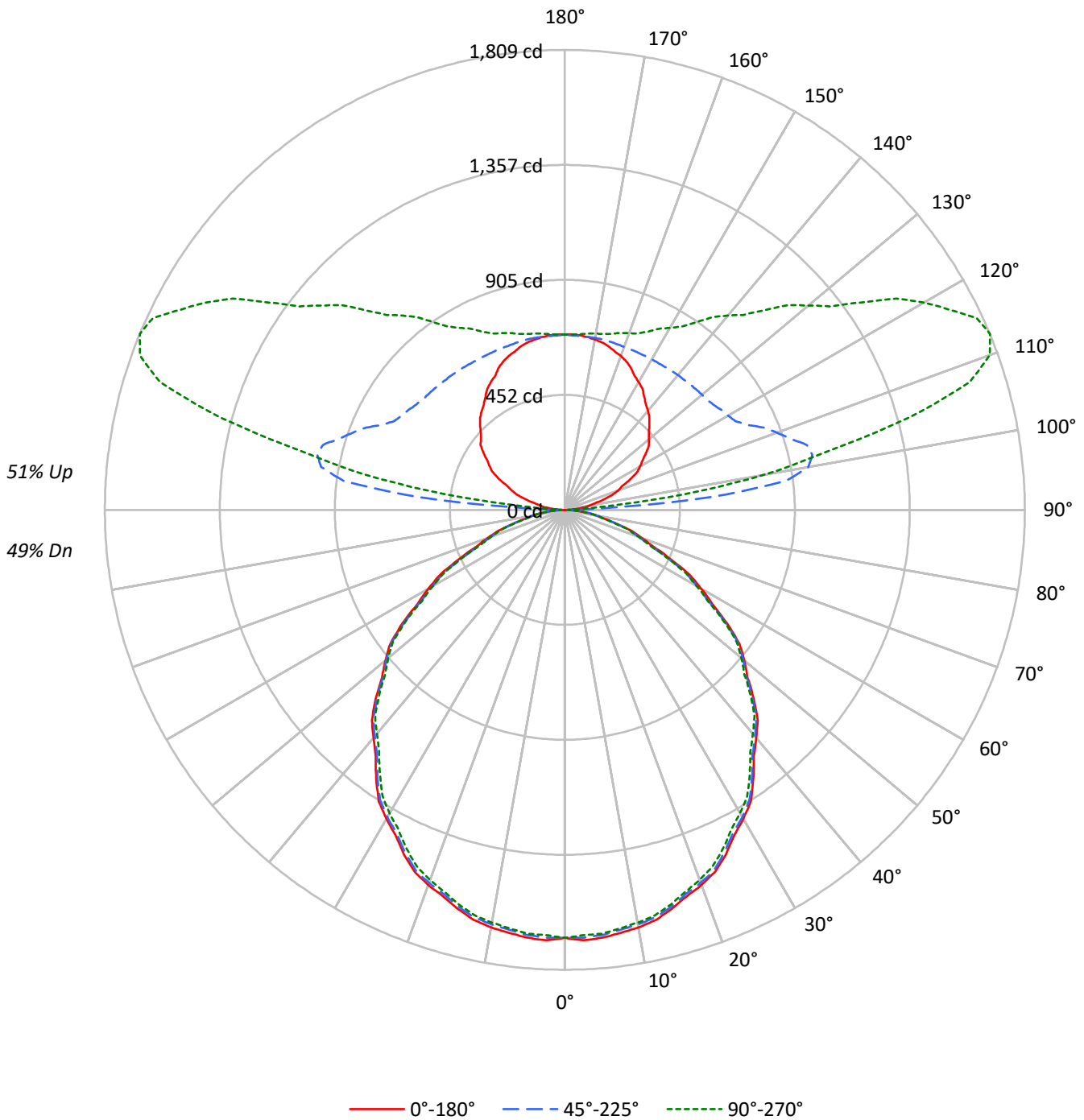
Lumens per Lamp: N/A
Luminaire Lumens: 8802.1 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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



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Luminous Intensity Polar Plot





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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	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	76	71	82	76	70	66	64	60	57	53	51	48	43	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	35	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.8
10°-20°	454.6	5.2
20°-30°	681.0	7.7
30°-40°	798.8	9.1
40°-50°	801.2	9.1
50°-60°	683.5	7.8
60°-70°	445.8	5.1
70°-80°	223.6	2.5
80°-90°	63.7	0.7
90°-100°	325.1	3.7
100°-110°	894.5	10.2
110°-120°	923.3	10.5
120°-130°	739.7	8.4
130°-140°	581.0	6.6
140°-150°	445.2	5.1
150°-160°	320.1	3.6
160°-170°	195.7	2.2
170°-180°	66.0	0.7
0°-30°	1294.8	14.7
0°-40°	2093.6	23.8
0°-60°	3578.4	40.7
0°-90°	4311.4	49.0
90°-120°	2142.9	24.3
90°-150°	3908.8	44.4
90°-180°	4491.0	51.0
0°-180°	8802.1	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°	2	6	10	13	13	5
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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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	18.8	20.9	21.6	22.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)