

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: P563827

Luminaire Tested: **SQ4-PP3-150U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563827
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

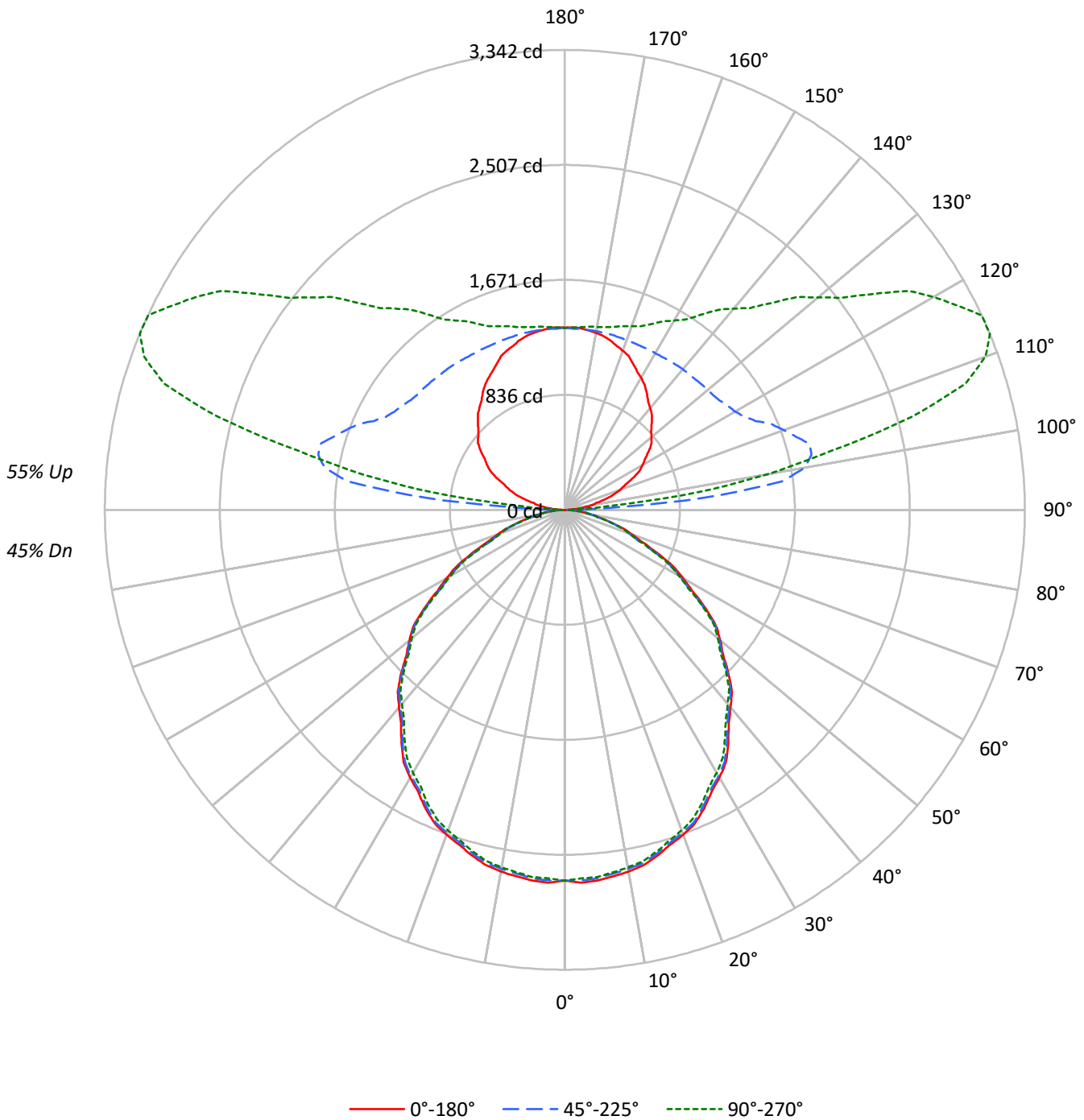
Lumens per Lamp: N/A
Luminaire Lumens: 15429.2 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16357	16233
25°	16253	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13195	13095
60°	12174	11826	11768
65°	10725	10278	10243
70°	9260	8877	8877
75°	7971	7859	7745
80°	7028	7113	6943
85°	5498	5999	5999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	1.7
10°-20°	727.6	4.7
20°-30°	1089.9	7.1
30°-40°	1278.4	8.3
40°-50°	1282.4	8.3
50°-60°	1094.0	7.1
60°-70°	713.4	4.6
70°-80°	357.9	2.3
80°-90°	101.8	0.7
90°-100°	614.8	4.0
100°-110°	1662.2	10.8
110°-120°	1747.6	11.3
120°-130°	1419.5	9.2
130°-140°	1113.5	7.2
140°-150°	854.6	5.5
150°-160°	614.6	4.0
160°-170°	375.5	2.4
170°-180°	126.6	0.8
0°-30°	2072.3	13.4
0°-40°	3350.7	21.7
0°-60°	5727.0	37.1
0°-90°	6900.2	44.7
90°-120°	4024.6	26.1
90°-150°	7412.3	48.0
90°-180°	8529.0	55.3
0°-180°	15429.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2704	2679	2688	2678	2678	257
15°	2600	2575	2586	2577	2572	734
25°	2395	2367	2378	2357	2355	1101
35°	2069	2048	2055	2031	2029	1292
45°	1682	1670	1670	1653	1653	1295
55°	1247	1242	1230	1223	1221	1108
65°	737	723	706	702	704	735
75°	335	335	331	328	326	364
85°	78	85	85	85	85	92
90°	3	8	18	20	18	9
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2694.9	2694.9	2694.9	2694.9	2694.9
2.5°	2711.9	2689.7	2694.9	2690.9	2679.8
5°	2704.3	2678.9	2687.8	2678.4	2678.4
7.5°	2685.9	2658.2	2667.0	2657.6	2657.1
10°	2668.9	2641.2	2650.0	2640.5	2638.2
12.5°	2644.4	2616.6	2627.4	2616.0	2615.5
15°	2600.4	2575.0	2586.3	2576.7	2572.1
17.5°	2550.8	2523.1	2536.7	2523.4	2521.5
20°	2513.0	2485.3	2498.9	2480.0	2480.0
22.5°	2467.7	2440.0	2455.4	2430.8	2430.8
25°	2394.9	2367.2	2378.4	2357.1	2354.8
27.5°	2308.5	2281.2	2292.9	2268.8	2268.3
30°	2246.1	2220.7	2234.3	2208.3	2206.0
32.5°	2178.1	2154.6	2164.4	2138.4	2136.1
35°	2069.0	2048.2	2054.8	2031.2	2028.9
37.5°	1954.2	1933.0	1940.5	1920.2	1919.3
40°	1873.0	1859.1	1861.2	1844.5	1839.9
42.5°	1797.4	1781.7	1783.7	1767.1	1766.2
45°	1681.7	1670.1	1669.8	1653.3	1653.3
47.5°	1558.8	1550.1	1547.5	1533.8	1533.3
50°	1473.8	1466.9	1464.4	1452.5	1450.2
52.5°	1385.0	1381.8	1373.7	1363.7	1363.3
55°	1247.1	1242.5	1230.5	1223.4	1221.1
57.5°	1097.3	1088.1	1074.7	1064.3	1066.2
60°	989.6	980.4	961.3	956.6	956.6
62.5°	885.7	874.6	855.5	848.9	852.6
65°	736.9	723.0	706.2	701.5	703.8
67.5°	601.8	589.3	571.1	571.1	569.2
70°	514.9	508.0	493.6	493.6	493.6
72.5°	437.4	434.2	423.7	423.7	421.8
75°	335.4	335.4	330.7	328.2	325.9
77.5°	251.3	252.2	249.9	247.4	243.3
80°	198.4	203.0	200.8	198.3	196.0
82.5°	149.3	153.9	153.5	149.3	148.8
85°	77.9	84.9	85.0	85.0	85.0
87.5°	21.4	29.9	33.9	34.3	35.8
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)