

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: P563443

Luminaire Tested: **SQ4-PP3-075U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563443
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-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

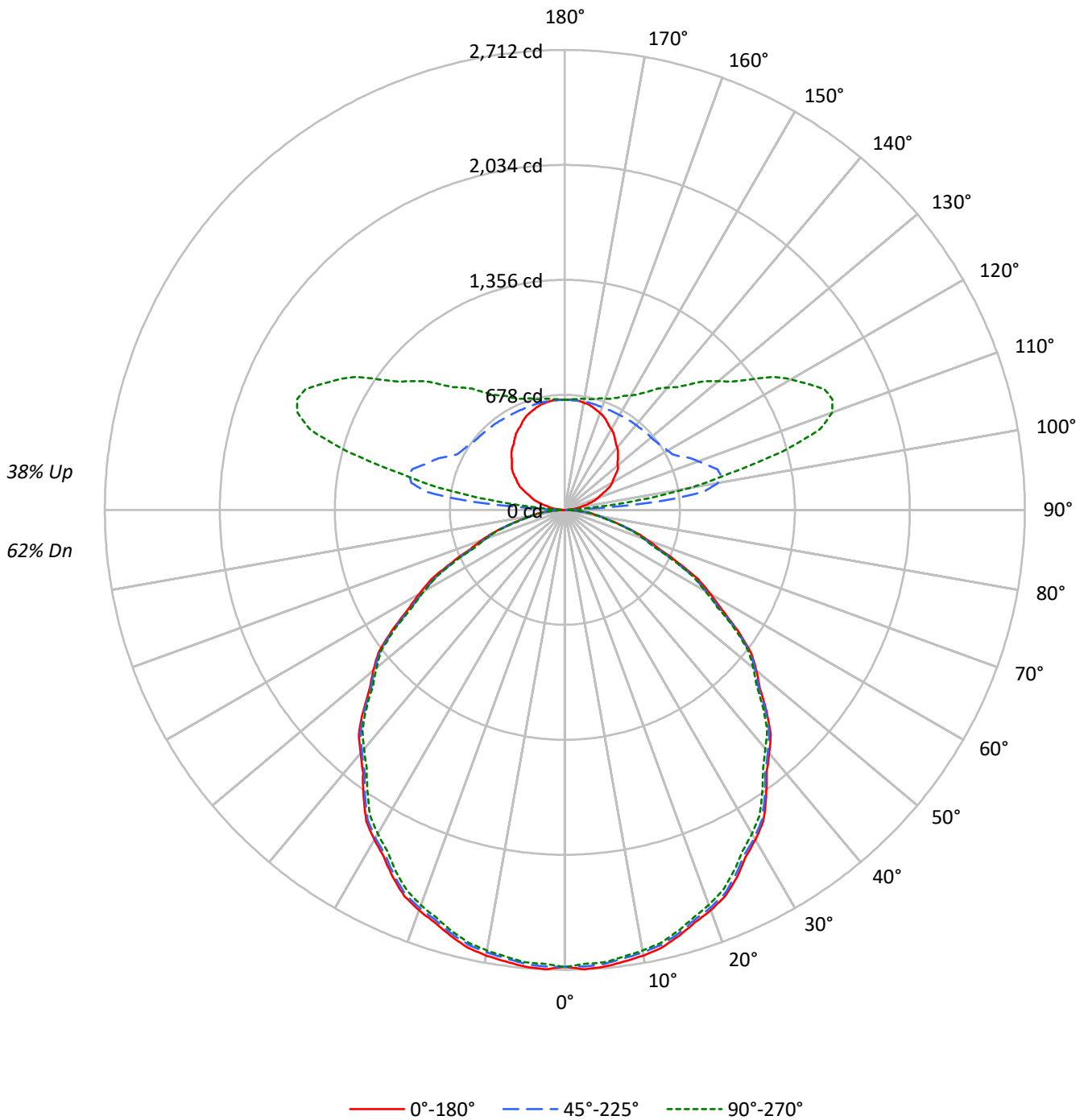
Lumens per Lamp: N/A
Luminaire Lumens: 11137.8 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

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	2.3
10°-20°	727.6	6.5
20°-30°	1089.9	9.8
30°-40°	1278.4	11.5
40°-50°	1282.4	11.5
50°-60°	1094.0	9.8
60°-70°	713.4	6.4
70°-80°	357.9	3.2
80°-90°	100.7	0.9
90°-100°	306.9	2.8
100°-110°	844.3	7.6
110°-120°	871.5	7.8
120°-130°	698.2	6.3
130°-140°	548.4	4.9
140°-150°	420.3	3.8
150°-160°	302.2	2.7
160°-170°	184.8	1.7
170°-180°	62.3	0.6
0°-30°	2072.3	18.6
0°-40°	3350.7	30.1
0°-60°	5727.0	51.4
0°-90°	6899.1	61.9
90°-120°	2022.6	18.2
90°-150°	3689.5	33.1
90°-180°	4239.0	38.1
0°-180°	11137.8	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°	1	5	10	12	12	6
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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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°	21.1	29.3	32.2	32.8	34.6
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)