

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: P562513

Luminaire Tested: **SQ4-PC3-025U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562513
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-050D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

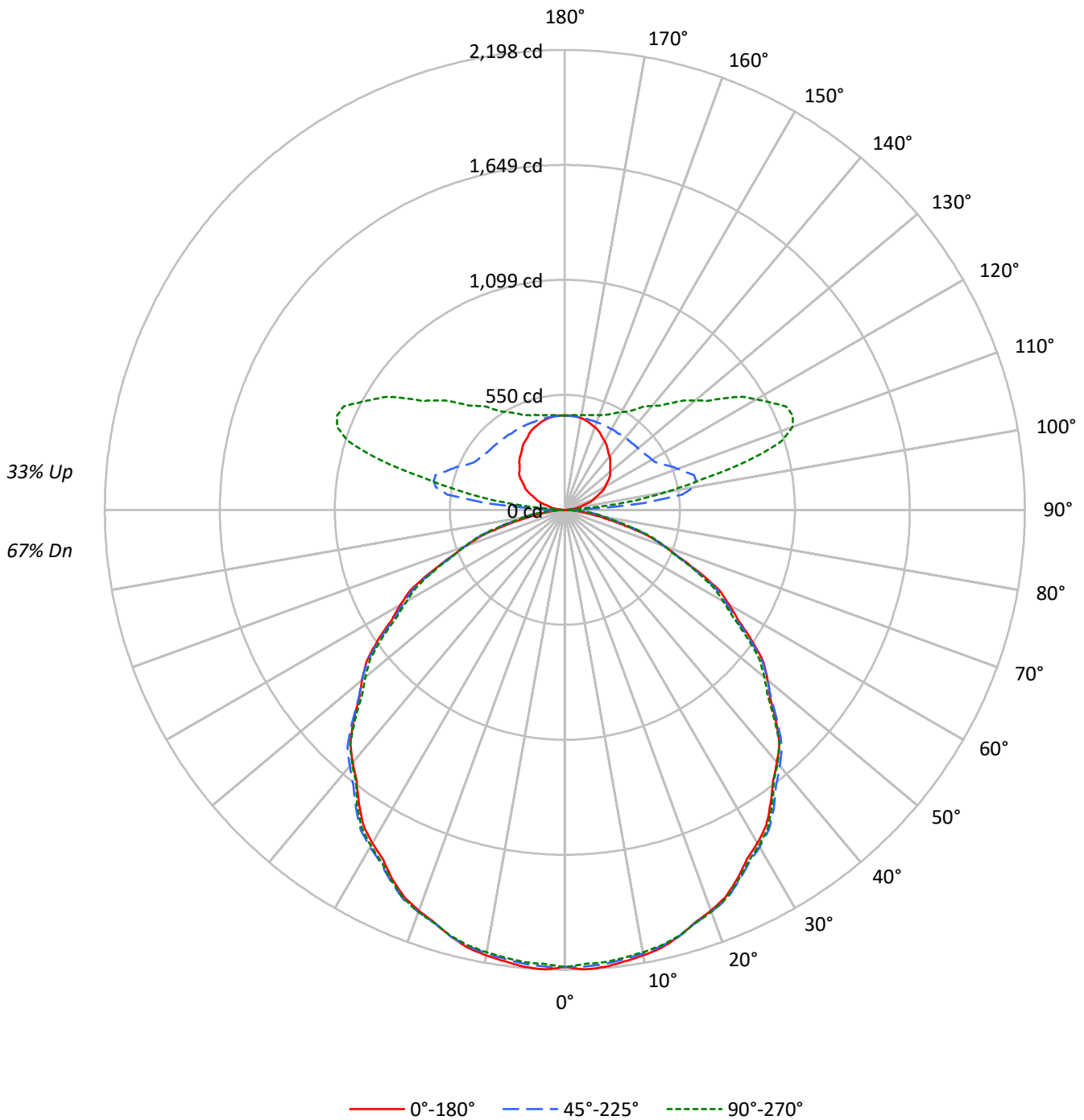
Lumens per Lamp: N/A
Luminaire Lumens: 8892.7 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 68.8
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6720	6720	6720
5°	6770	6727	6702
10°	6754	6722	6703
15°	6718	6718	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6532	6487
40°	6327	6417	6352
45°	6212	6256	6159
50°	6050	6050	5953
55°	5858	5782	5695
60°	5575	5463	5376
65°	5153	5050	5006
70°	4511	4548	4530
75°	3630	4015	4039
80°	2580	3404	3439
85°	1570	2855	2855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	2.3
10°-20°	593.4	6.7
20°-30°	898.7	10.1
30°-40°	1077.4	12.1
40°-50°	1098.6	12.4
50°-60°	959.0	10.8
60°-70°	686.5	7.7
70°-80°	353.6	4.0
80°-90°	91.8	1.0
90°-100°	220.1	2.5
100°-110°	578.6	6.5
110°-120°	600.0	6.7
120°-130°	481.3	5.4
130°-140°	377.6	4.2
140°-150°	289.8	3.3
150°-160°	208.7	2.3
160°-170°	127.7	1.4
170°-180°	43.1	0.5
0°-30°	1698.9	19.1
0°-40°	2776.2	31.2
0°-60°	4833.8	54.4
0°-90°	5965.7	67.1
90°-120°	1398.7	15.7
90°-150°	2547.3	28.6
90°-180°	2927.0	32.9
0°-180°	8892.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2185	2185	2185	2185	2185	
5°	2193	2171	2179	2173	2171	208
15°	2110	2092	2110	2110	2108	595
25°	1948	1934	1962	1956	1956	897
35°	1714	1710	1740	1728	1728	1072
45°	1428	1424	1438	1420	1416	1099
55°	1092	1079	1078	1062	1062	974
65°	708	692	694	688	688	700
75°	306	319	338	340	340	330
85°	44	68	81	83	81	61
90°	3	9	23	12	12	4
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2185.0	2185.0	2185.0	2185.0	2185.0
2.5°	2198.0	2179.0	2185.0	2180.0	2172.1
5°	2193.1	2171.3	2178.9	2172.8	2170.8
7.5°	2177.3	2155.6	2165.6	2161.5	2159.5
10°	2162.8	2141.0	2152.6	2148.5	2146.6
12.5°	2143.3	2123.2	2136.4	2132.4	2132.0
15°	2110.1	2092.3	2110.1	2110.1	2108.1
17.5°	2068.5	2052.3	2071.3	2072.5	2071.3
20°	2039.3	2021.5	2045.4	2043.4	2045.4
22.5°	2003.7	1989.1	2014.7	2009.4	2011.4
25°	1948.3	1934.4	1962.5	1956.4	1956.4
27.5°	1882.7	1872.9	1903.4	1896.9	1896.9
30°	1839.0	1829.2	1861.3	1853.2	1853.2
32.5°	1790.5	1783.8	1814.4	1804.7	1804.7
35°	1713.6	1709.7	1739.9	1727.8	1727.8
37.5°	1634.3	1630.7	1658.2	1643.5	1638.8
40°	1576.0	1574.1	1598.3	1582.1	1582.1
42.5°	1517.8	1515.8	1536.8	1517.4	1517.4
45°	1428.3	1424.4	1438.5	1420.2	1416.2
47.5°	1330.8	1326.9	1335.7	1315.8	1313.8
50°	1264.5	1260.5	1264.5	1246.2	1244.2
52.5°	1196.5	1189.4	1190.0	1171.8	1171.4
55°	1092.5	1078.7	1078.3	1062.2	1062.2
57.5°	982.4	964.2	965.9	952.1	950.1
60°	906.4	886.6	888.2	876.0	874.0
62.5°	831.9	809.0	813.7	799.9	799.6
65°	708.1	692.3	693.9	687.9	687.9
67.5°	589.1	574.5	585.1	580.2	579.8
70°	501.7	491.9	505.8	505.7	503.8
72.5°	420.8	420.4	437.8	437.8	439.0
75°	305.5	319.3	337.9	339.9	339.9
77.5°	203.9	228.5	248.8	249.6	249.3
80°	145.7	173.4	192.2	196.2	194.2
82.5°	98.7	128.0	143.6	147.6	145.7
85°	44.5	68.2	80.9	82.9	80.9
87.5°	13.5	28.9	37.0	34.6	31.4
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)