

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: P562521

Luminaire Tested: **SQ4-PC3-025U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562521
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

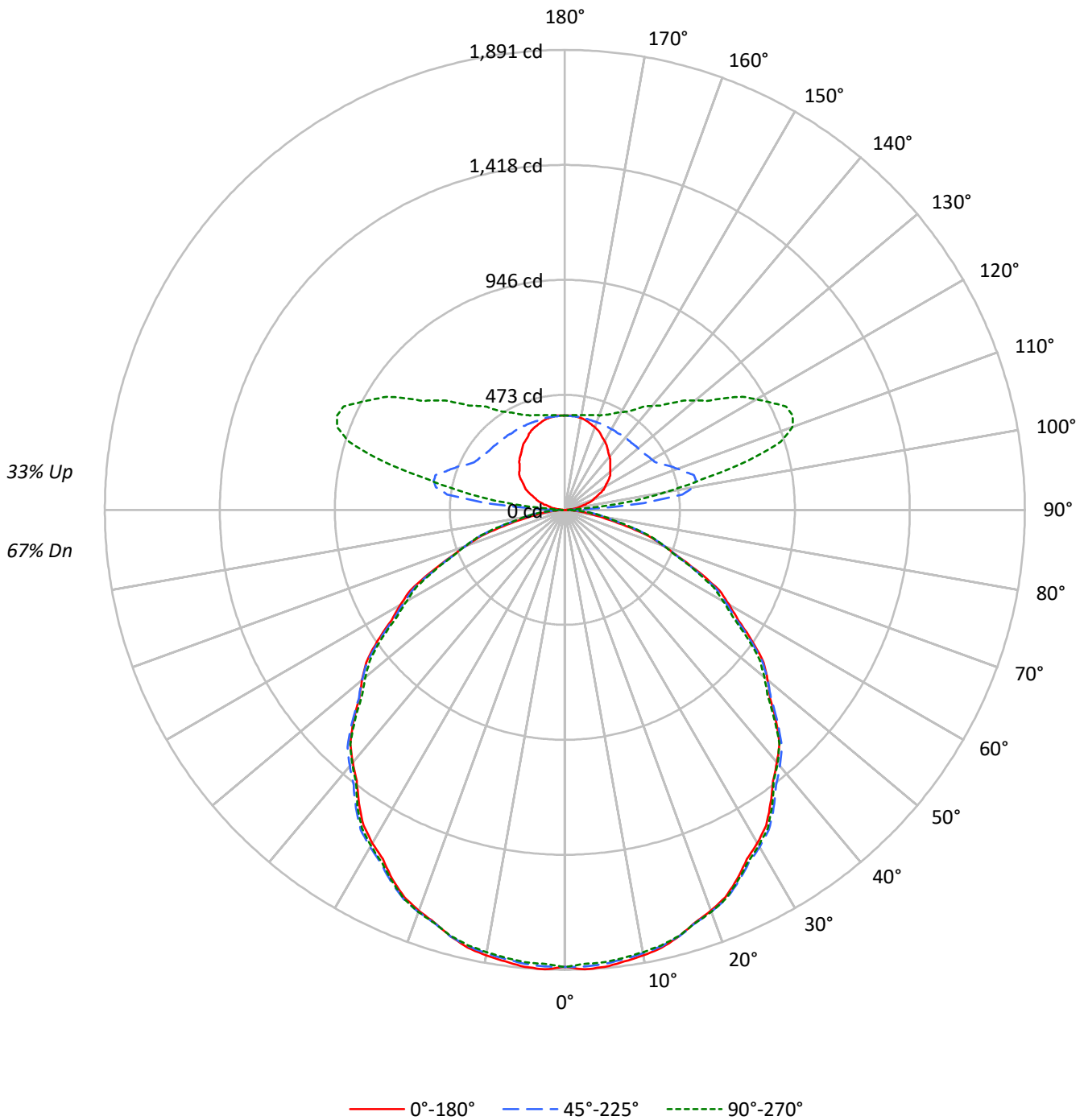
Lumens per Lamp: N/A
Luminaire Lumens: 7649.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5204	5204	5121
55°	5039	4974	4899
60°	4796	4699	4624
65°	4432	4344	4306
70°	3881	3912	3897
75°	3123	3453	3474
80°	2219	2928	2959
85°	1351	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	2.3
10°-20°	510.5	6.7
20°-30°	773.1	10.1
30°-40°	926.8	12.1
40°-50°	945.0	12.4
50°-60°	824.9	10.8
60°-70°	590.6	7.7
70°-80°	304.2	4.0
80°-90°	79.0	1.0
90°-100°	189.3	2.5
100°-110°	497.7	6.5
110°-120°	516.1	6.7
120°-130°	414.0	5.4
130°-140°	324.8	4.2
140°-150°	249.3	3.3
150°-160°	179.6	2.3
160°-170°	109.9	1.4
170°-180°	37.1	0.5
0°-30°	1461.4	19.1
0°-40°	2388.2	31.2
0°-60°	4158.2	54.4
0°-90°	5131.9	67.1
90°-120°	1203.2	15.7
90°-150°	2191.3	28.6
90°-180°	2518.0	32.9
0°-180°	7649.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1887	1868	1874	1869	1867	179
15°	1815	1800	1815	1815	1814	512
25°	1676	1664	1688	1683	1683	771
35°	1474	1471	1497	1486	1486	922
45°	1229	1225	1237	1222	1218	946
55°	940	928	928	914	914	838
65°	609	596	597	592	592	602
75°	263	275	291	292	292	284
85°	38	59	70	71	70	52
90°	2	7	20	10	10	4
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.6	1879.6	1879.6	1879.6	1879.6
2.5°	1890.8	1874.4	1879.6	1875.3	1868.5
5°	1886.6	1867.9	1874.4	1869.1	1867.4
7.5°	1873.0	1854.3	1862.9	1859.4	1857.7
10°	1860.5	1841.8	1851.8	1848.3	1846.6
12.5°	1843.8	1826.4	1837.9	1834.4	1834.0
15°	1815.2	1799.9	1815.2	1815.2	1813.5
17.5°	1779.4	1765.4	1781.8	1782.8	1781.8
20°	1754.3	1739.0	1759.5	1757.8	1759.5
22.5°	1723.7	1711.1	1733.1	1728.6	1730.3
25°	1676.0	1664.1	1688.2	1683.0	1683.0
27.5°	1619.6	1611.1	1637.4	1631.8	1631.8
30°	1582.0	1573.5	1601.2	1594.2	1594.2
32.5°	1540.2	1534.5	1560.8	1552.4	1552.4
35°	1474.1	1470.7	1496.7	1486.3	1486.3
37.5°	1405.9	1402.8	1426.4	1413.8	1409.7
40°	1355.8	1354.1	1374.9	1361.0	1361.0
42.5°	1305.6	1303.9	1322.0	1305.3	1305.3
45°	1228.7	1225.3	1237.4	1221.7	1218.3
47.5°	1144.8	1141.4	1149.0	1131.9	1130.2
50°	1087.7	1084.3	1087.7	1072.0	1070.3
52.5°	1029.3	1023.1	1023.7	1008.0	1007.7
55°	939.8	927.9	927.6	913.7	913.7
57.5°	845.1	829.5	830.9	819.0	817.3
60°	779.7	762.7	764.0	753.6	751.8
62.5°	715.6	695.9	700.0	688.1	687.8
65°	609.1	595.5	597.0	591.7	591.7
67.5°	506.8	494.2	503.3	499.1	498.8
70°	431.6	423.1	435.1	435.1	433.4
72.5°	362.0	361.7	376.6	376.6	377.7
75°	262.8	274.7	290.6	292.4	292.4
77.5°	175.4	196.5	214.1	214.8	214.4
80°	125.3	149.1	165.3	168.8	167.1
82.5°	84.9	110.1	123.6	127.0	125.3
85°	38.3	58.7	69.6	71.3	69.6
87.5°	11.6	24.9	31.8	29.8	27.1
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)