

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: P562645

Luminaire Tested: **SQ4-PC3-050U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562645
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

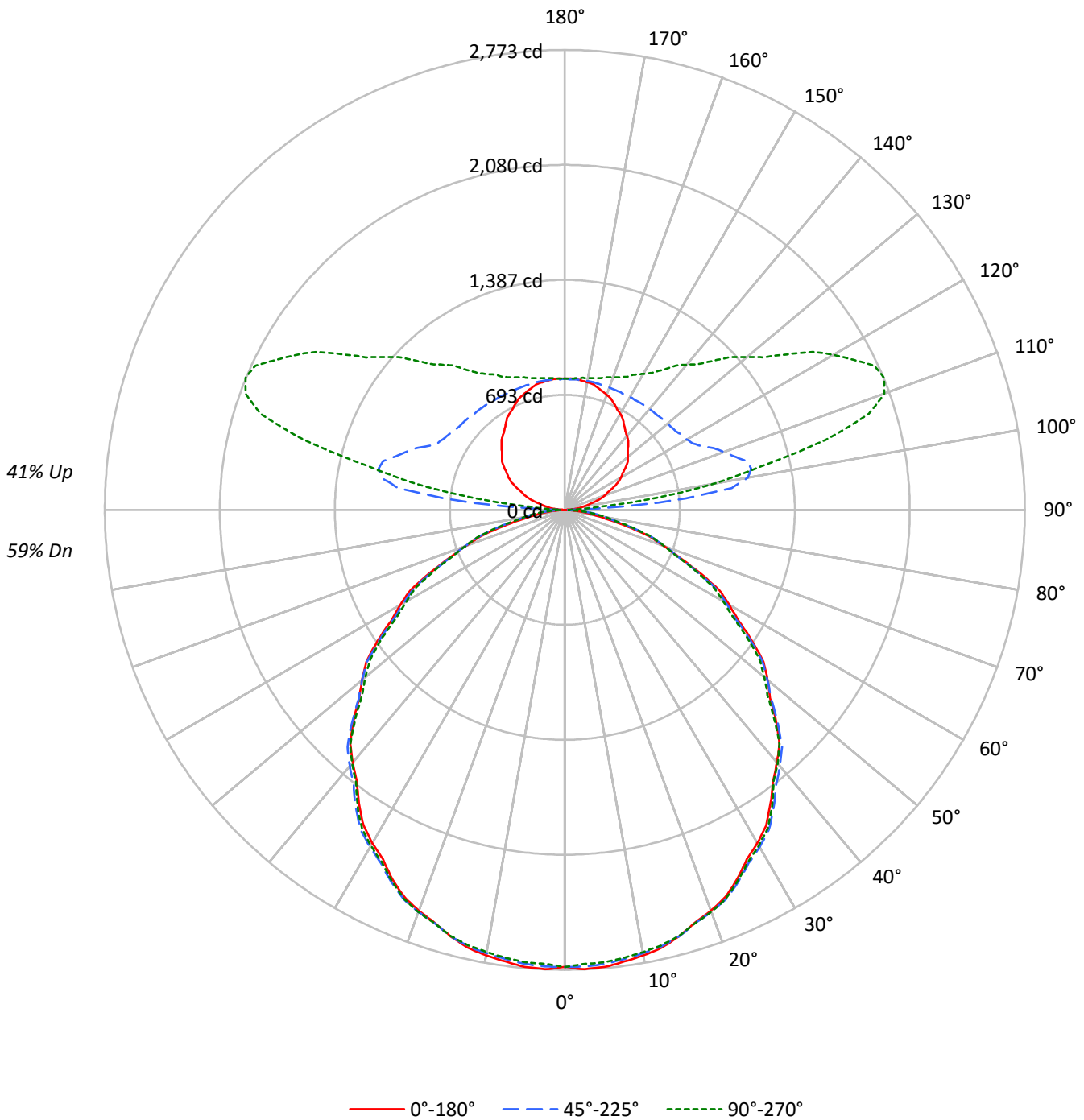
Lumens per Lamp: N/A
Luminaire Lumens: 12691.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 105.6
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59																			
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50																			
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42																			
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36																			
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30																			
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26																			
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23																			
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20																			
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18																			
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16																			
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8400	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7509
55°	7389	7294	7184
60°	7032	6891	6781
65°	6500	6370	6314
70°	5691	5737	5714
75°	4579	5064	5095
80°	3255	4295	4339
85°	1980	3603	3603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	2.1
10°-20°	748.6	5.9
20°-30°	1133.6	8.9
30°-40°	1359.0	10.7
40°-50°	1385.8	10.9
50°-60°	1209.7	9.5
60°-70°	866.0	6.8
70°-80°	446.1	3.5
80°-90°	115.8	0.9
90°-100°	379.8	3.0
100°-110°	1031.8	8.1
110°-120°	1060.8	8.4
120°-130°	848.2	6.7
130°-140°	666.4	5.3
140°-150°	511.0	4.0
150°-160°	367.5	2.9
160°-170°	224.7	1.8
170°-180°	75.7	0.6
0°-30°	2143.0	16.9
0°-40°	3502.1	27.6
0°-60°	6097.5	48.0
0°-90°	7525.5	59.3
90°-120°	2472.4	19.5
90°-150°	4498.0	35.4
90°-180°	5166.0	40.7
0°-180°	12691.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2766	2739	2749	2741	2738	263
15°	2662	2639	2662	2662	2659	751
25°	2458	2440	2476	2468	2468	1131
35°	2162	2157	2195	2180	2180	1352
45°	1802	1797	1814	1792	1786	1387
55°	1378	1361	1360	1340	1340	1229
65°	893	873	875	868	868	883
75°	385	403	426	429	429	416
85°	56	86	102	105	102	76
90°	2	10	18	23	23	6
95°	56	208	661	288	193	59
105°	183	285	1135	1728	1626	195
115°	326	395	908	1807	2058	321
125°	448	510	822	1384	1633	399
135°	539	599	799	1128	1272	417
145°	623	668	789	958	1030	391
155°	705	730	784	860	885	325
165°	763	773	786	819	822	215
175°	791	794	789	799	796	75
180°	791	791	791	791	791	

TEST NUMBER: P562645

CATALOG NUMBER: SQ4-PC3-050U-075D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2756.3	2756.3	2756.3	2756.3	2756.3
2.5°	2772.6	2748.7	2756.3	2749.9	2739.9
5°	2766.5	2739.0	2748.6	2740.9	2738.4
7.5°	2746.6	2719.1	2731.8	2726.6	2724.1
10°	2728.2	2700.8	2715.4	2710.3	2707.8
12.5°	2703.7	2678.3	2695.0	2689.9	2689.4
15°	2661.8	2639.4	2661.8	2661.8	2659.3
17.5°	2609.3	2588.8	2612.8	2614.3	2612.8
20°	2572.5	2550.1	2580.2	2577.7	2580.2
22.5°	2527.6	2509.1	2541.4	2534.8	2537.3
25°	2457.7	2440.2	2475.5	2467.9	2467.9
27.5°	2375.0	2362.5	2401.0	2392.9	2392.9
30°	2319.9	2307.4	2347.9	2337.7	2337.7
32.5°	2258.6	2250.1	2288.7	2276.5	2276.5
35°	2161.6	2156.6	2194.8	2179.5	2179.5
37.5°	2061.6	2057.1	2091.7	2073.2	2067.2
40°	1988.1	1985.6	2016.2	1995.7	1995.7
42.5°	1914.6	1912.1	1938.6	1914.1	1914.1
45°	1801.8	1796.8	1814.5	1791.5	1786.5
47.5°	1678.8	1673.8	1684.9	1659.8	1657.3
50°	1595.1	1590.1	1595.1	1572.0	1569.5
52.5°	1509.3	1500.3	1501.2	1478.2	1477.7
55°	1378.1	1360.7	1360.3	1339.9	1339.9
57.5°	1239.3	1216.3	1218.4	1201.0	1198.5
60°	1143.3	1118.4	1120.4	1105.0	1102.5
62.5°	1049.4	1020.5	1026.5	1009.1	1008.6
65°	893.2	873.3	875.4	867.7	867.7
67.5°	743.2	724.7	738.1	731.9	731.4
70°	632.9	620.4	638.0	638.0	635.5
72.5°	530.8	530.3	552.3	552.3	553.8
75°	385.4	402.8	426.2	428.8	428.8
77.5°	257.3	288.2	313.9	314.9	314.4
80°	183.8	218.7	242.5	247.5	245.0
82.5°	124.5	161.5	181.2	186.2	183.8
85°	56.1	86.1	102.1	104.6	102.1
87.5°	16.8	36.3	44.4	45.3	41.3
90°	2.5	10.0	17.8	22.9	22.9
92.5°	22.9	104.0	180.6	77.6	65.6
95°	56.0	207.7	661.4	287.9	193.3
97.5°	92.6	229.4	1014.0	788.9	554.1
100°	117.0	243.9	1121.9	1137.3	918.4
102.5°	141.4	258.4	1150.4	1406.5	1213.5
105°	183.2	285.2	1134.6	1727.6	1625.6
107.5°	226.4	316.5	1069.0	1893.4	1921.8
110°	256.9	339.0	1020.2	1926.1	2047.9

TEST NUMBER: P562645

CATALOG NUMBER: SQ4-PC3-050U-075D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	361.5	971.3	1899.0	2082.5
115°	325.6	395.3	908.2	1806.9	2058.1
117.5°	365.3	432.0	868.0	1676.3	1959.4
120°	391.8	456.5	849.7	1588.8	1869.9
122.5°	414.2	478.8	837.5	1501.0	1772.2
125°	447.7	509.9	821.7	1384.5	1633.3
127.5°	477.8	539.5	813.1	1296.2	1509.6
130°	496.1	555.8	809.0	1240.8	1432.3
132.5°	514.4	574.1	804.9	1193.4	1363.1
135°	539.3	599.0	798.8	1127.7	1272.0
137.5°	566.3	620.5	795.8	1069.7	1191.1
140°	582.6	634.8	793.7	1032.8	1142.3
142.5°	598.9	647.1	791.7	1003.9	1095.5
145°	623.3	668.1	788.6	958.2	1030.3
147.5°	650.8	689.1	786.1	922.2	978.9
150°	669.1	701.4	786.1	901.6	946.4
152.5°	683.3	711.7	784.1	883.1	919.9
155°	704.7	729.6	783.6	860.4	885.3
157.5°	725.6	745.0	783.6	845.0	864.0
160°	737.8	755.2	783.6	834.8	849.7
162.5°	750.0	763.4	785.6	826.5	837.5
165°	763.2	773.2	786.1	819.2	821.7
167.5°	776.9	781.9	788.6	810.6	812.6
170°	781.0	786.0	788.6	806.5	806.5
172.5°	785.1	788.1	788.6	802.4	802.4
175°	791.2	793.7	788.6	798.8	796.3
177.5°	793.2	793.2	787.1	795.2	791.2
180°	791.2	791.2	791.2	791.2	791.2

(END OF REPORT)