

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: P563317

Luminaire Tested: **SQ4-PP3-050U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563317
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

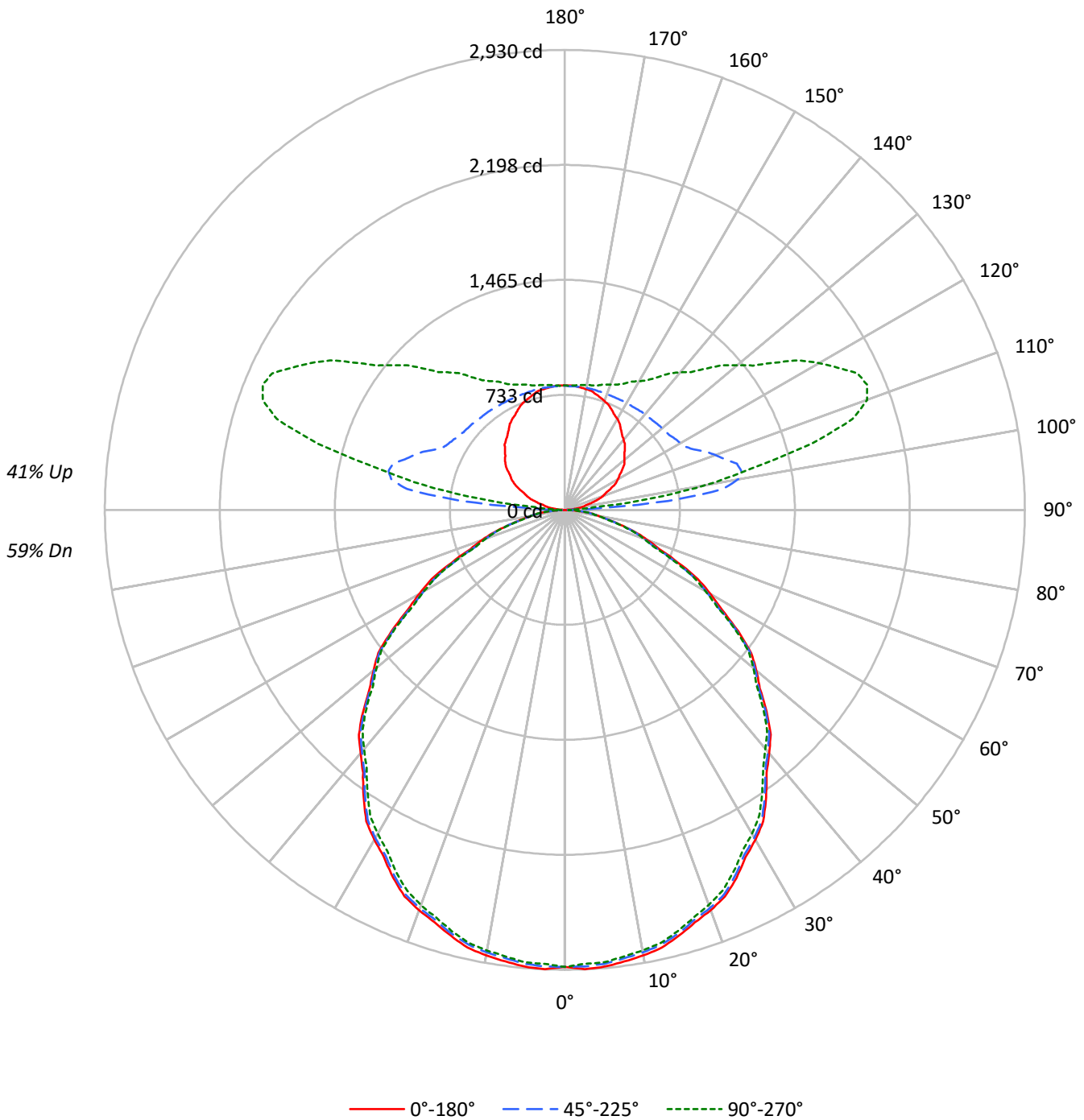
Lumens per Lamp: N/A
Luminaire Lumens: 12620.2 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P563317
CATALOG NUMBER: SQ4-PP3-050U-075D-940-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563317

CATALOG NUMBER: SQ4-PP3-050U-075D-940-1D-UNV-STD-W-12

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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8391	8334	8228
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6388	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4305	4244	4184
80°	3795	3841	3751
85°	2971	3243	3243



TEST NUMBER: P563317

CATALOG NUMBER: SQ4-PP3-050U-075D-940-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	2.2
10°-20°	786.0	6.2
20°-30°	1177.4	9.3
30°-40°	1381.0	10.9
40°-50°	1385.3	11.0
50°-60°	1181.8	9.4
60°-70°	770.7	6.1
70°-80°	386.7	3.1
80°-90°	110.1	0.9
90°-100°	379.8	3.0
100°-110°	1031.8	8.2
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°	2238.7	17.7
0°-40°	3619.7	28.7
0°-60°	6186.8	49.0
0°-90°	7454.3	59.1
90°-120°	2472.4	19.6
90°-150°	4498.0	35.6
90°-180°	5166.0	40.9
0°-180°	12620.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2922	2894	2904	2893	2893	277
15°	2809	2782	2794	2784	2779	793
25°	2587	2557	2569	2546	2544	1190
35°	2235	2213	2220	2194	2192	1396
45°	1817	1804	1804	1786	1786	1399
55°	1347	1342	1329	1322	1319	1197
65°	796	781	763	758	760	794
75°	362	362	357	355	352	393
85°	84	92	92	92	92	99
90°	2	10	18	23	23	7
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: P563317

CATALOG NUMBER: SQ4-PP3-050U-075D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2929.6	2905.7	2911.3	2906.9	2894.9
5°	2921.5	2894.0	2903.6	2893.4	2893.4
7.5°	2901.6	2871.6	2881.2	2870.9	2870.4
10°	2883.2	2853.3	2862.8	2852.5	2850.0
12.5°	2856.7	2826.7	2838.3	2826.0	2825.5
15°	2809.2	2781.8	2793.9	2783.6	2778.6
17.5°	2755.6	2725.7	2740.3	2726.0	2724.0
20°	2714.8	2684.9	2699.5	2679.1	2679.1
22.5°	2665.8	2635.9	2652.5	2626.0	2626.0
25°	2587.2	2557.3	2569.4	2546.3	2543.8
27.5°	2493.8	2464.4	2477.0	2451.0	2450.5
30°	2426.5	2399.0	2413.7	2385.6	2383.1
32.5°	2353.0	2327.5	2338.2	2310.1	2307.6
35°	2235.1	2212.7	2219.8	2194.2	2191.7
37.5°	2111.1	2088.2	2096.3	2074.3	2073.4
40°	2023.3	2008.4	2010.6	1992.6	1987.6
42.5°	1941.7	1924.7	1926.9	1909.0	1908.0
45°	1816.7	1804.2	1803.9	1786.1	1786.1
47.5°	1684.0	1674.5	1671.7	1656.9	1656.4
50°	1592.1	1584.7	1581.9	1569.1	1566.6
52.5°	1496.2	1492.7	1484.0	1473.2	1472.7
55°	1347.2	1342.2	1329.3	1321.6	1319.1
57.5°	1185.4	1175.4	1160.9	1149.8	1151.7
60°	1069.1	1059.1	1038.5	1033.4	1033.4
62.5°	956.8	944.8	924.2	917.1	921.1
65°	796.1	781.1	762.9	757.9	760.3
67.5°	650.1	636.7	617.0	616.9	614.9
70°	556.2	548.7	533.3	533.3	533.3
72.5°	472.5	469.0	457.7	457.7	455.7
75°	362.3	362.3	357.2	354.6	352.1
77.5°	271.5	272.5	269.9	267.3	262.8
80°	214.3	219.3	216.9	214.3	211.8
82.5°	161.3	166.2	165.8	161.2	160.7
85°	84.2	91.7	91.9	91.9	91.9
87.5°	23.0	32.4	36.2	37.3	39.3
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: P563317

CATALOG NUMBER: SQ4-PP3-050U-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)