

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: P563293

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563293
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-050D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 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: 10224.4 lumens
Efficiency: N/A
Efficacy: 128.4 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

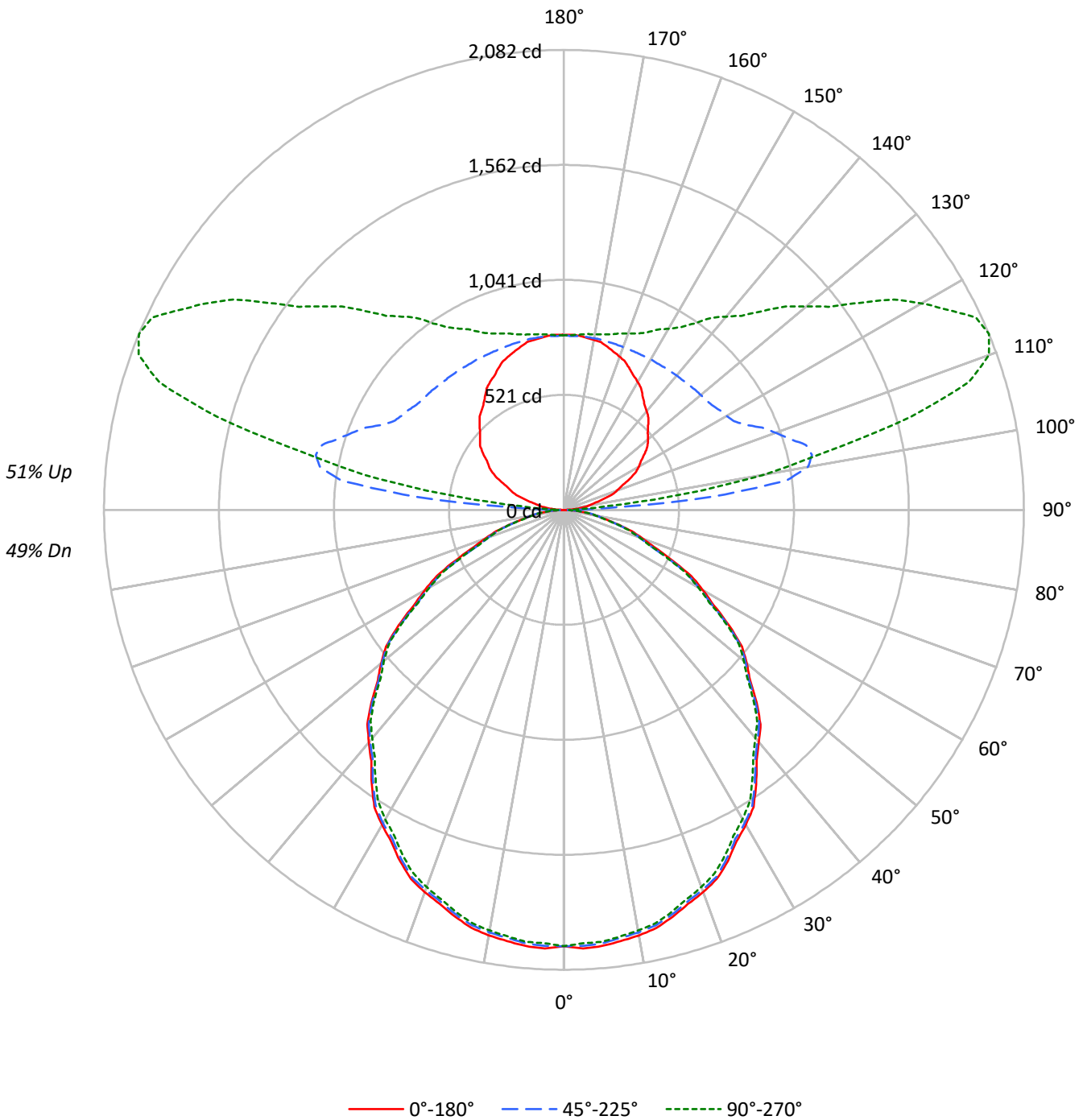
Input Watts (W): 79.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P563293

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

Luminous Intensity Polar Plot





TEST NUMBER: P563293

CATALOG NUMBER: SQ4-PP3-050U-050D-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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6119	6082	6060
10°	6109	6065	6039
15°	6068	6035	6002
20°	6028	5994	5949
25°	5957	5916	5857
30°	5846	5816	5742
35°	5694	5654	5583
40°	5511	5476	5414
45°	5361	5323	5270
50°	5168	5135	5085
55°	4901	4836	4799
60°	4461	4334	4312
65°	3930	3767	3754
70°	3394	3253	3253
75°	2921	2880	2839
80°	2575	2605	2545
85°	2015	2198	2198



TEST NUMBER: P563293

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.8
10°-20°	533.3	5.2
20°-30°	798.8	7.8
30°-40°	937.0	9.2
40°-50°	939.9	9.2
50°-60°	801.8	7.8
60°-70°	522.9	5.1
70°-80°	262.4	2.6
80°-90°	75.6	0.7
90°-100°	379.8	3.7
100°-110°	1031.8	10.1
110°-120°	1060.8	10.4
120°-130°	848.2	8.3
130°-140°	666.4	6.5
140°-150°	511.0	5.0
150°-160°	367.5	3.6
160°-170°	224.7	2.2
170°-180°	75.7	0.7
0°-30°	1518.9	14.9
0°-40°	2455.9	24.0
0°-60°	4197.6	41.1
0°-90°	5058.5	49.5
90°-120°	2472.4	24.2
90°-150°	4498.0	44.0
90°-180°	5166.0	50.5
0°-180°	10224.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1982	1964	1970	1963	1963	188
15°	1906	1887	1896	1889	1885	538
25°	1755	1735	1743	1728	1726	807
35°	1516	1501	1506	1489	1487	947
45°	1233	1224	1224	1212	1212	949
55°	914	911	902	897	895	812
65°	540	530	518	514	516	539
75°	246	246	242	241	239	267
85°	57	62	62	62	62	67
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: P563293

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1987.7	1971.4	1975.2	1972.3	1964.2
5°	1982.2	1963.5	1970.0	1963.1	1963.1
7.5°	1968.7	1948.3	1954.8	1947.9	1947.5
10°	1956.2	1935.9	1942.3	1935.4	1933.7
12.5°	1938.2	1917.9	1925.7	1917.4	1917.1
15°	1906.0	1887.4	1895.6	1888.6	1885.2
17.5°	1869.6	1849.3	1859.2	1849.5	1848.2
20°	1841.9	1821.6	1831.5	1817.7	1817.7
22.5°	1808.7	1788.4	1799.7	1781.7	1781.7
25°	1755.4	1735.1	1743.3	1727.6	1725.9
27.5°	1692.0	1672.0	1680.6	1662.9	1662.6
30°	1646.3	1627.7	1637.7	1618.6	1616.9
32.5°	1596.5	1579.2	1586.4	1567.3	1565.6
35°	1516.5	1501.2	1506.1	1488.7	1487.1
37.5°	1432.3	1416.8	1422.3	1407.4	1406.7
40°	1372.8	1362.6	1364.1	1351.9	1348.6
42.5°	1317.4	1305.9	1307.4	1295.2	1294.5
45°	1232.6	1224.1	1223.9	1211.8	1211.8
47.5°	1142.6	1136.1	1134.2	1124.2	1123.9
50°	1080.2	1075.2	1073.3	1064.6	1062.9
52.5°	1015.1	1012.8	1006.8	999.6	999.2
55°	914.0	910.7	901.9	896.7	895.0
57.5°	804.3	797.5	787.7	780.1	781.4
60°	725.3	718.6	704.6	701.1	701.1
62.5°	649.2	641.1	627.0	622.2	624.9
65°	540.1	530.0	517.6	514.2	515.9
67.5°	441.1	432.0	418.6	418.6	417.2
70°	377.4	372.3	361.8	361.8	361.8
72.5°	320.6	318.2	310.6	310.5	309.2
75°	245.8	245.8	242.4	240.6	238.9
77.5°	184.2	184.9	183.2	181.4	178.3
80°	145.4	148.8	147.1	145.4	143.7
82.5°	109.4	112.8	112.5	109.4	109.1
85°	57.1	62.2	62.3	62.3	62.3
87.5°	15.7	22.7	25.7	26.8	28.1
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: P563293

CATALOG NUMBER: SQ4-PP3-050U-050D-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)