

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: P563593

Luminaire Tested: **SQ4-PP3-100U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563593
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

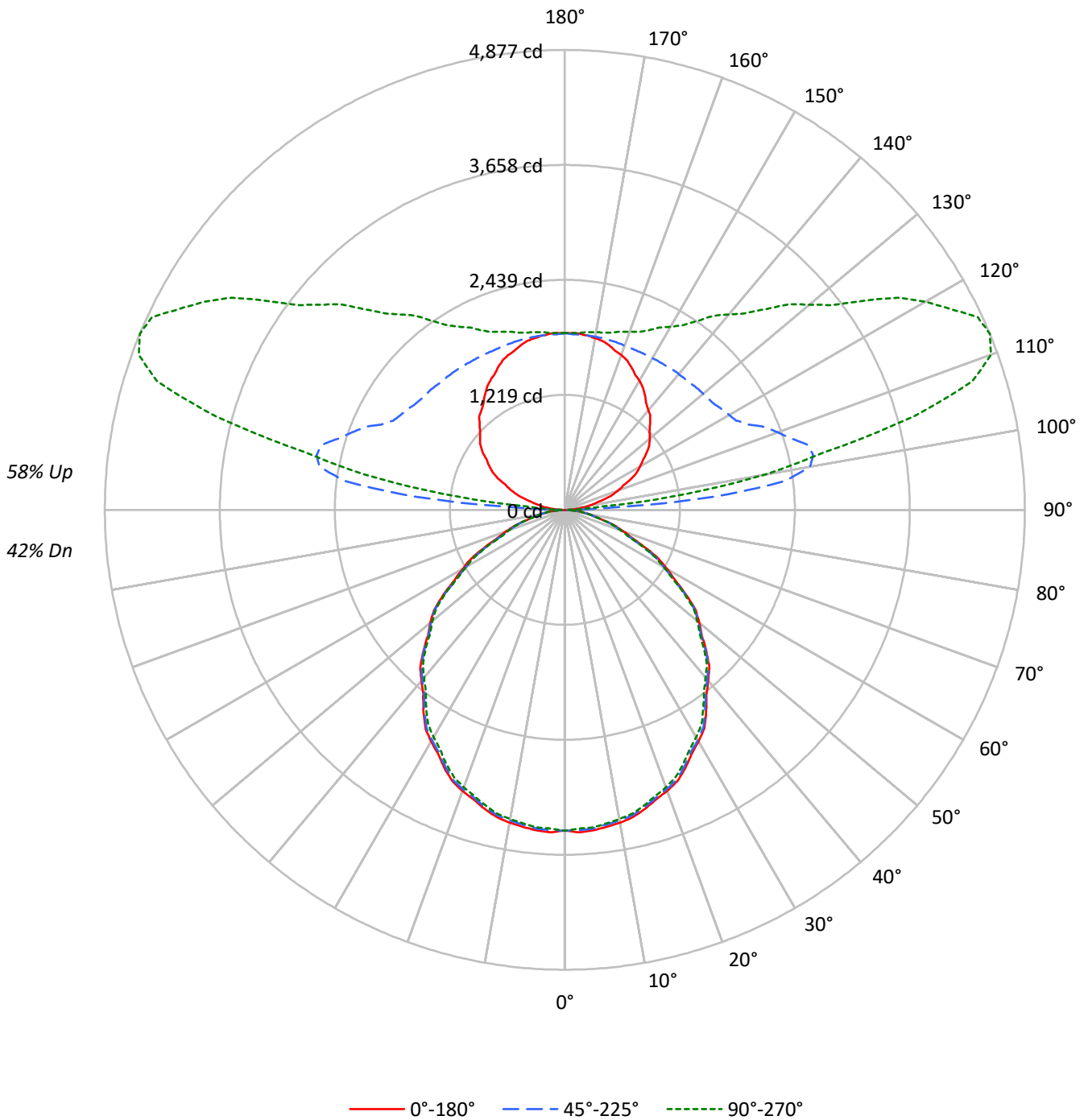
Lumens per Lamp: N/A
Luminaire Lumens: 20880.1 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 153.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10446	10399
15°	10450	10393	10336
20°	10381	10323	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6768	6487	6465
70°	5844	5603	5603
75°	5030	4960	4888
80°	4435	4488	4382
85°	3472	3786	3786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	1.5
10°-20°	918.4	4.4
20°-30°	1375.6	6.6
30°-40°	1613.6	7.7
40°-50°	1618.6	7.8
50°-60°	1380.8	6.6
60°-70°	900.5	4.3
70°-80°	451.8	2.2
80°-90°	128.9	0.6
90°-100°	877.2	4.2
100°-110°	2421.6	11.6
110°-120°	2497.4	12.0
120°-130°	2006.9	9.6
130°-140°	1577.2	7.6
140°-150°	1209.7	5.8
150°-160°	869.4	4.2
160°-170°	531.7	2.5
170°-180°	179.2	0.9
0°-30°	2615.7	12.5
0°-40°	4229.3	20.3
0°-60°	7228.7	34.6
0°-90°	8709.9	41.7
90°-120°	5796.2	27.8
90°-150°	10589.9	50.7
90°-180°	12170.0	58.3
0°-180°	20880.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3402	3402	3402	3402	3402	
5°	3414	3381	3393	3381	3381	324
15°	3282	3250	3264	3252	3246	926
25°	3023	2988	3002	2975	2972	1390
35°	2612	2585	2594	2564	2561	1631
45°	2123	2108	2108	2087	2087	1634
55°	1574	1568	1553	1544	1541	1399
65°	930	913	891	886	888	928
75°	423	423	417	414	411	459
85°	98	107	107	107	107	116
90°	6	12	24	27	30	13
95°	129	475	1591	654	426	138
105°	432	666	2664	4067	3830	459
115°	773	934	2146	4248	4831	760
125°	1061	1207	1945	3292	3863	944
135°	1277	1414	1891	2666	3006	988
145°	1480	1583	1867	2270	2442	927
155°	1669	1725	1852	2036	2101	769
165°	1807	1831	1861	1933	1948	509
175°	1873	1876	1864	1891	1885	178
180°	1873	1873	1873	1873	1873	

TEST NUMBER: P563593

CATALOG NUMBER: SQ4-PP3-100U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3401.5	3401.5	3401.5	3401.5	3401.5
2.5°	3423.0	3395.0	3401.5	3396.4	3382.5
5°	3413.5	3381.4	3392.6	3380.7	3380.7
7.5°	3390.2	3355.2	3366.4	3354.4	3353.8
10°	3368.7	3333.8	3344.9	3332.9	3330.0
12.5°	3337.7	3302.8	3316.3	3301.9	3301.4
15°	3282.3	3250.2	3264.4	3252.3	3246.5
17.5°	3219.7	3184.7	3201.8	3185.0	3182.7
20°	3172.0	3137.0	3154.1	3130.2	3130.2
22.5°	3114.7	3079.8	3099.2	3068.2	3068.2
25°	3022.9	2987.9	3002.1	2975.2	2972.2
27.5°	2913.8	2879.4	2894.1	2863.7	2863.1
30°	2835.1	2803.0	2820.2	2787.3	2784.4
32.5°	2749.3	2719.5	2732.0	2699.1	2696.2
35°	2611.5	2585.3	2593.6	2563.8	2560.8
37.5°	2466.6	2439.8	2449.3	2423.7	2422.5
40°	2364.1	2346.6	2349.2	2328.2	2322.3
42.5°	2268.7	2248.9	2251.4	2230.5	2229.3
45°	2122.6	2108.0	2107.7	2086.8	2086.8
47.5°	1967.6	1956.5	1953.3	1936.0	1935.4
50°	1860.3	1851.5	1848.3	1833.4	1830.4
52.5°	1748.2	1744.1	1733.9	1721.3	1720.7
55°	1574.1	1568.2	1553.2	1544.2	1541.3
57.5°	1385.1	1373.4	1356.4	1343.4	1345.7
60°	1249.1	1237.5	1213.3	1207.4	1207.4
62.5°	1117.9	1104.0	1079.8	1071.5	1076.2
65°	930.1	912.6	891.4	885.5	888.4
67.5°	759.6	743.9	720.9	720.8	718.5
70°	649.9	641.2	623.1	623.1	623.1
72.5°	552.1	548.0	534.8	534.8	532.4
75°	423.3	423.3	417.4	414.3	411.4
77.5°	317.2	318.4	315.4	312.3	307.1
80°	250.4	256.2	253.4	250.4	247.4
82.5°	188.4	194.2	193.8	188.4	187.8
85°	98.4	107.1	107.3	107.3	107.3
87.5°	27.4	37.9	43.0	43.6	46.5
90°	6.0	11.9	24.0	27.0	30.0
92.5°	53.9	223.9	400.4	146.1	113.9
95°	128.9	474.6	1591.4	654.1	425.6
97.5°	213.4	531.6	2357.4	1814.9	1314.4
100°	275.7	565.8	2640.3	2658.9	2160.8
102.5°	335.7	604.7	2695.4	3285.3	2812.9
105°	431.6	666.0	2664.2	4067.4	3830.0
107.5°	533.4	742.1	2515.6	4444.6	4531.3
110°	605.4	792.9	2400.5	4525.7	4807.0



TEST NUMBER: P563593

CATALOG NUMBER: SQ4-PP3-100U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	670.1	850.6	2292.6	4461.6	4876.6
115°	773.2	934.4	2145.8	4247.9	4831.0
117.5°	863.1	1023.7	2049.3	3947.0	4610.4
120°	923.0	1081.3	2010.9	3743.3	4411.4
122.5°	980.6	1131.8	1979.8	3553.1	4186.1
125°	1060.9	1207.4	1945.0	3291.6	3863.0
127.5°	1129.2	1275.7	1924.6	3070.4	3563.3
130°	1174.8	1321.3	1915.0	2935.2	3383.5
132.5°	1217.9	1357.4	1905.4	2821.5	3227.7
135°	1276.7	1414.4	1891.0	2666.0	3005.9
137.5°	1342.6	1468.0	1883.9	2535.4	2825.5
140°	1378.6	1501.6	1879.1	2448.3	2703.2
142.5°	1419.3	1533.0	1874.3	2370.9	2595.3
145°	1480.5	1583.0	1867.1	2269.6	2442.5
147.5°	1539.2	1628.9	1860.5	2184.2	2318.4
150°	1582.4	1655.6	1858.1	2133.3	2241.7
152.5°	1615.9	1684.5	1855.7	2089.7	2179.3
155°	1669.3	1725.0	1852.1	2036.4	2100.8
157.5°	1718.4	1761.2	1852.7	1997.5	2041.5
160°	1747.2	1785.3	1855.1	1975.7	2007.9
162.5°	1771.2	1804.6	1857.5	1956.4	1981.6
165°	1807.1	1830.6	1861.1	1933.3	1948.0
167.5°	1834.7	1848.8	1864.1	1919.3	1924.0
170°	1849.1	1860.8	1864.1	1912.0	1912.0
172.5°	1861.1	1868.1	1864.1	1902.4	1900.0
175°	1873.1	1876.0	1864.1	1890.9	1885.1
177.5°	1877.9	1875.5	1863.5	1880.2	1875.5
180°	1873.1	1873.1	1873.1	1873.1	1873.1

(END OF REPORT)