

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: P564112

Luminaire Tested: **SQ4-PR1-075U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564112
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-075U-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

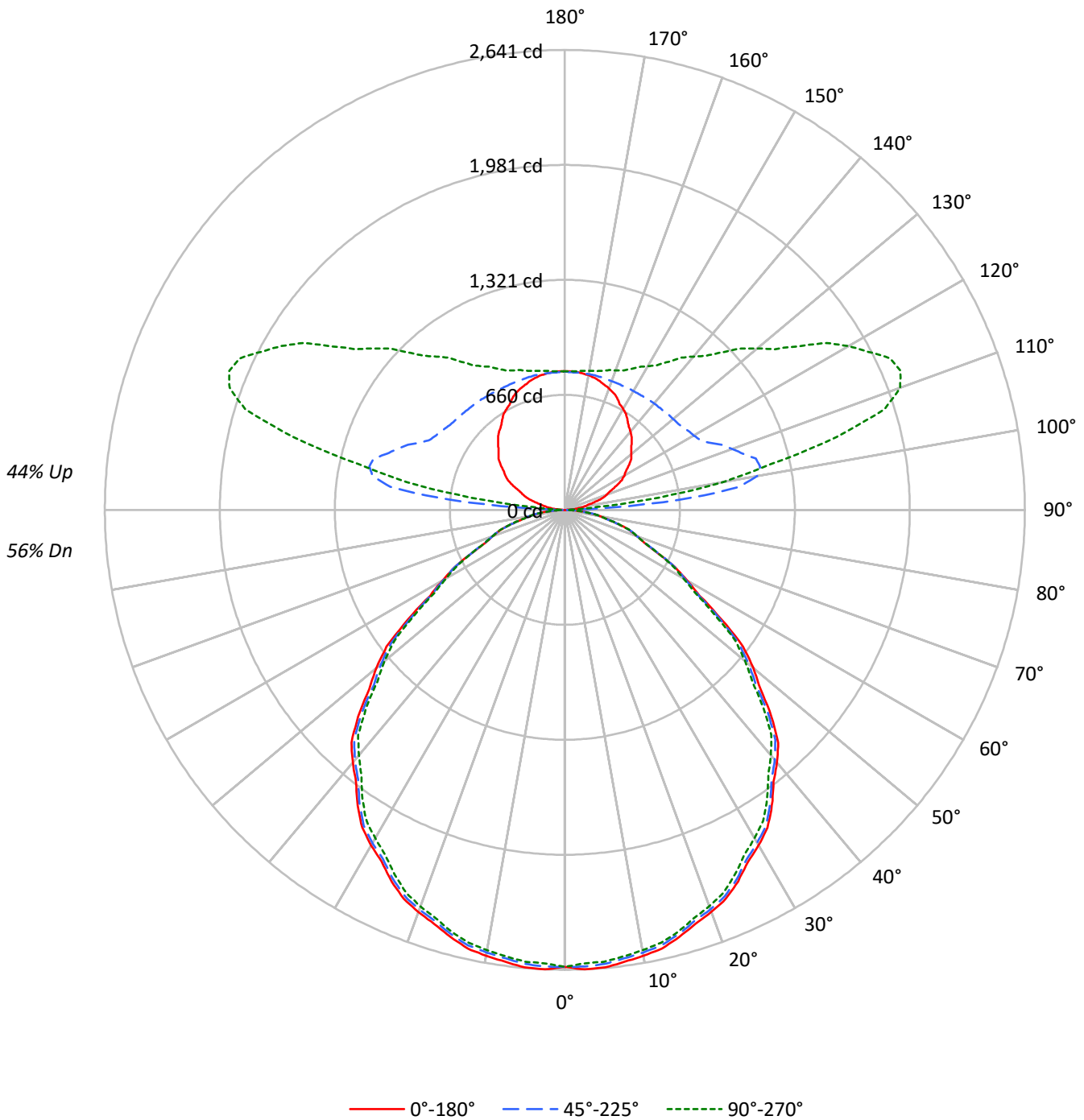
Lumens per Lamp: N/A
Luminaire Lumens: 11739.4 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 108.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12108	12108	12108
5°	12217	12122	12060
10°	12178	12093	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11849	11765	11596
35°	11674	11572	11407
40°	11408	11286	11082
45°	10943	10751	10530
50°	10124	9880	9686
55°	8837	8636	8454
60°	7446	7384	7237
65°	6440	6465	6416
70°	5916	5945	5945
75°	5682	5682	5721
80°	5345	5406	5345
85°	4308	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	2.1
10°-20°	710.1	6.0
20°-30°	1071.1	9.1
30°-40°	1276.2	10.9
40°-50°	1258.2	10.7
50°-60°	961.6	8.2
60°-70°	595.1	5.1
70°-80°	338.0	2.9
80°-90°	104.8	0.9
90°-100°	374.7	3.2
100°-110°	1031.0	8.8
110°-120°	1064.2	9.1
120°-130°	852.6	7.3
130°-140°	669.7	5.7
140°-150°	513.2	4.4
150°-160°	369.0	3.1
160°-170°	225.6	1.9
170°-180°	76.1	0.6
0°-30°	2029.4	17.3
0°-40°	3305.6	28.2
0°-60°	5525.4	47.1
0°-90°	6563.3	55.9
90°-120°	2470.0	21.0
90°-150°	4505.5	38.4
90°-180°	5176.0	44.1
0°-180°	11739.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2638	2610	2618	2609	2604	250
15°	2539	2512	2523	2514	2509	716
25°	2353	2325	2338	2313	2310	1083
35°	2073	2049	2055	2028	2026	1294
45°	1677	1655	1648	1618	1614	1285
55°	1099	1081	1074	1056	1051	984
65°	590	586	592	588	588	598
75°	319	319	319	321	321	337
85°	81	86	90	90	90	95
90°	2	7	12	15	15	7
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2640.9	2617.9	2624.6	2618.9	2606.5
5°	2638.2	2609.5	2617.8	2608.7	2604.3
7.5°	2617.8	2589.5	2597.9	2588.8	2586.2
10°	2599.8	2573.2	2581.7	2572.5	2568.1
12.5°	2579.9	2551.6	2561.8	2550.8	2546.4
15°	2538.7	2512.2	2522.9	2513.8	2509.3
17.5°	2493.5	2465.2	2475.9	2465.3	2459.6
20°	2457.3	2430.8	2441.5	2425.6	2423.4
22.5°	2417.5	2391.0	2401.7	2380.5	2380.0
25°	2353.3	2324.6	2337.5	2312.6	2310.4
27.5°	2276.9	2250.4	2261.1	2235.7	2233.1
30°	2224.5	2198.0	2208.7	2181.4	2177.0
32.5°	2164.8	2140.0	2149.0	2121.8	2119.1
35°	2073.0	2048.7	2054.9	2027.8	2025.5
37.5°	1968.6	1946.5	1950.0	1920.2	1917.9
40°	1894.4	1872.3	1874.1	1842.4	1840.2
42.5°	1813.0	1790.9	1789.1	1757.4	1755.2
45°	1677.4	1655.3	1648.0	1618.5	1614.1
47.5°	1522.8	1500.7	1487.1	1463.0	1459.9
50°	1410.7	1388.5	1376.7	1356.2	1349.6
52.5°	1289.5	1267.4	1257.4	1238.7	1232.1
55°	1098.7	1081.0	1073.8	1055.6	1051.2
57.5°	917.4	905.4	903.4	885.7	883.9
60°	807.1	800.4	800.3	784.4	784.4
62.5°	713.0	708.1	711.7	701.2	699.4
65°	590.0	585.6	592.3	587.8	587.8
67.5°	492.8	492.8	496.9	495.1	495.1
70°	438.6	438.6	440.8	440.8	440.8
72.5°	389.7	388.0	393.8	393.8	392.0
75°	318.8	318.8	318.8	321.0	321.0
77.5°	248.2	248.7	250.5	250.0	248.2
80°	201.2	203.4	203.5	201.2	201.2
82.5°	154.2	156.4	156.4	155.9	154.2
85°	81.4	85.8	90.4	90.4	90.4
87.5°	23.8	31.9	38.5	39.2	37.4
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)