

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: P563423

Luminaire Tested: **SQ4-PP3-075U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563423  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

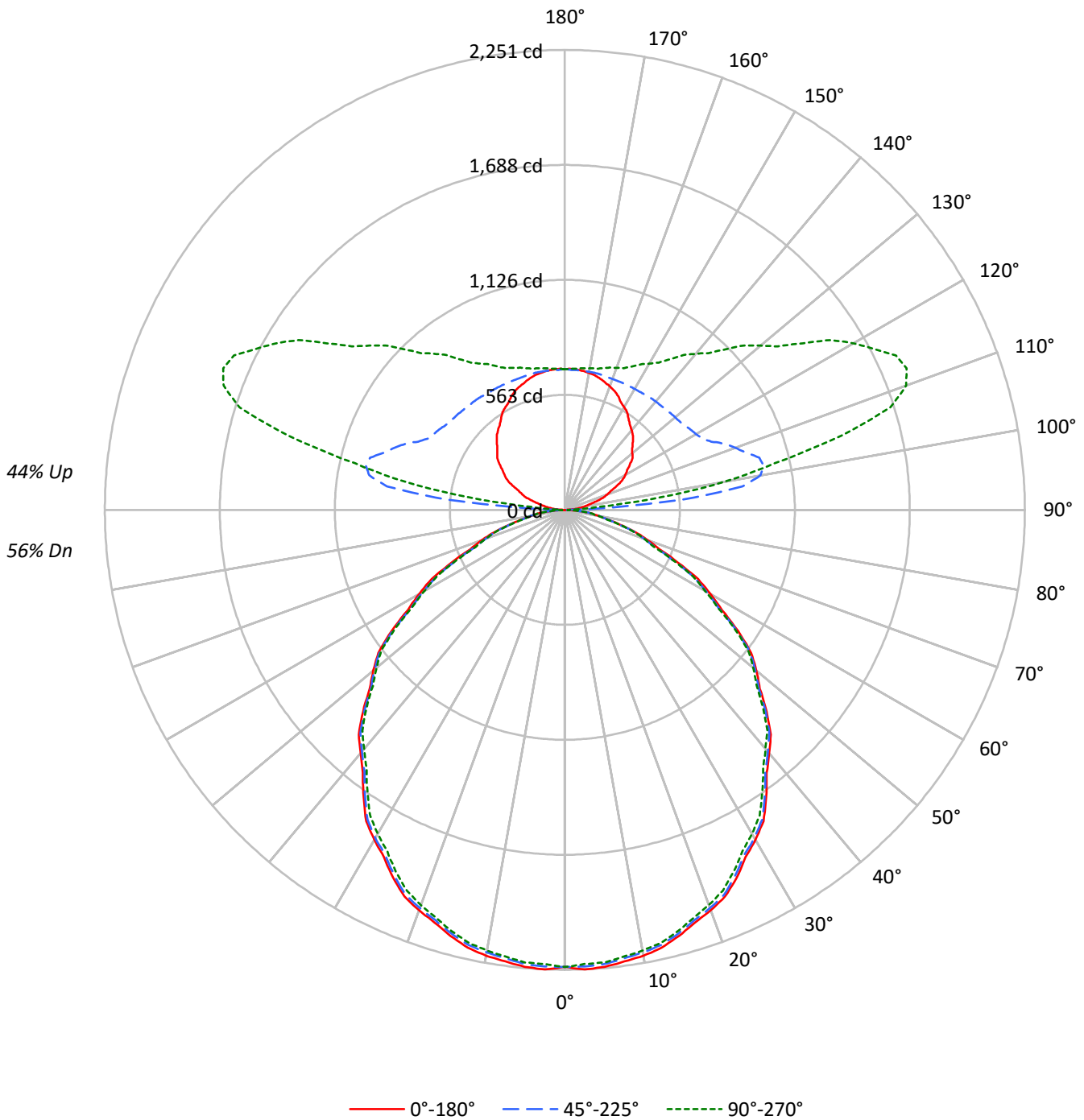
Lumens per Lamp: N/A  
Luminaire Lumens: 10218.7 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.9  
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	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13679
15°	13747	13672	13597
20°	13656	13579	13477
25°	13494	13401	13267
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11709	11633	11520
55°	11102	10955	10871
60°	10107	9818	9769
65°	8904	8533	8504
70°	7688	7370	7370
75°	6616	6523	6431
80°	5834	5905	5763
85°	4566	4982	4982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.6	2.1
10°-20°	604.1	5.9
20°-30°	904.8	8.9
30°-40°	1061.3	10.4
40°-50°	1064.6	10.4
50°-60°	908.2	8.9
60°-70°	592.3	5.8
70°-80°	297.2	2.9
80°-90°	84.0	0.8
90°-100°	325.1	3.2
100°-110°	894.5	8.8
110°-120°	923.3	9.0
120°-130°	739.7	7.2
130°-140°	581.0	5.7
140°-150°	445.2	4.4
150°-160°	320.1	3.1
160°-170°	195.7	1.9
170°-180°	66.0	0.6
0°-30°	1720.4	16.8
0°-40°	2781.7	27.2
0°-60°	4754.6	46.5
0°-90°	5728.0	56.1
90°-120°	2142.9	21.0
90°-150°	3908.8	38.3
90°-180°	4491.0	43.9
0°-180°	10218.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2237	2237	2237	2237	2237	
5°	2245	2224	2231	2224	2224	213
15°	2159	2138	2147	2139	2135	609
25°	1988	1965	1975	1957	1955	914
35°	1718	1700	1706	1686	1684	1073
45°	1396	1386	1386	1373	1373	1075
55°	1035	1032	1022	1016	1014	920
65°	612	600	586	582	584	611
75°	278	278	274	272	271	302
85°	65	70	71	71	71	76
90°	2	6	10	13	13	6
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2237.3	2237.3	2237.3	2237.3	2237.3
2.5°	2251.4	2233.0	2237.3	2234.0	2224.8
5°	2245.1	2224.1	2231.4	2223.6	2223.6
7.5°	2229.8	2206.8	2214.2	2206.3	2205.9
10°	2215.7	2192.7	2200.0	2192.2	2190.2
12.5°	2195.3	2172.3	2181.2	2171.8	2171.4
15°	2158.9	2137.8	2147.1	2139.2	2135.3
17.5°	2117.7	2094.7	2105.9	2094.9	2093.4
20°	2086.3	2063.3	2074.6	2058.9	2058.9
22.5°	2048.7	2025.7	2038.5	2018.1	2018.1
25°	1988.3	1965.3	1974.6	1956.9	1954.9
27.5°	1916.5	1893.9	1903.6	1883.6	1883.2
30°	1864.7	1843.7	1854.9	1833.3	1831.4
32.5°	1808.3	1788.7	1796.9	1775.3	1773.4
35°	1717.7	1700.4	1705.9	1686.3	1684.3
37.5°	1622.4	1604.7	1611.0	1594.1	1593.4
40°	1554.9	1543.4	1545.1	1531.3	1527.5
42.5°	1492.2	1479.2	1480.8	1467.1	1466.3
45°	1396.1	1386.5	1386.3	1372.6	1372.6
47.5°	1294.1	1286.9	1284.7	1273.4	1273.0
50°	1223.6	1217.8	1215.7	1205.9	1203.9
52.5°	1149.8	1147.1	1140.4	1132.2	1131.8
55°	1035.3	1031.5	1021.6	1015.7	1013.7
57.5°	911.0	903.3	892.2	883.6	885.1
60°	821.6	813.9	798.1	794.1	794.1
62.5°	735.3	726.1	710.2	704.8	707.9
65°	611.8	600.3	586.3	582.4	584.3
67.5°	499.6	489.3	474.1	474.1	472.6
70°	427.5	421.7	409.8	409.8	409.8
72.5°	363.1	360.5	351.8	351.7	350.2
75°	278.4	278.4	274.5	272.5	270.6
77.5°	208.6	209.4	207.5	205.4	202.0
80°	164.7	168.5	166.7	164.7	162.7
82.5°	123.9	127.8	127.5	123.9	123.5
85°	64.7	70.5	70.6	70.6	70.6
87.5°	17.5	24.5	27.2	27.8	29.3
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)