

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: P563519

Luminaire Tested: **SQ4-PP3-0U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563519  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PP3-0U-100D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

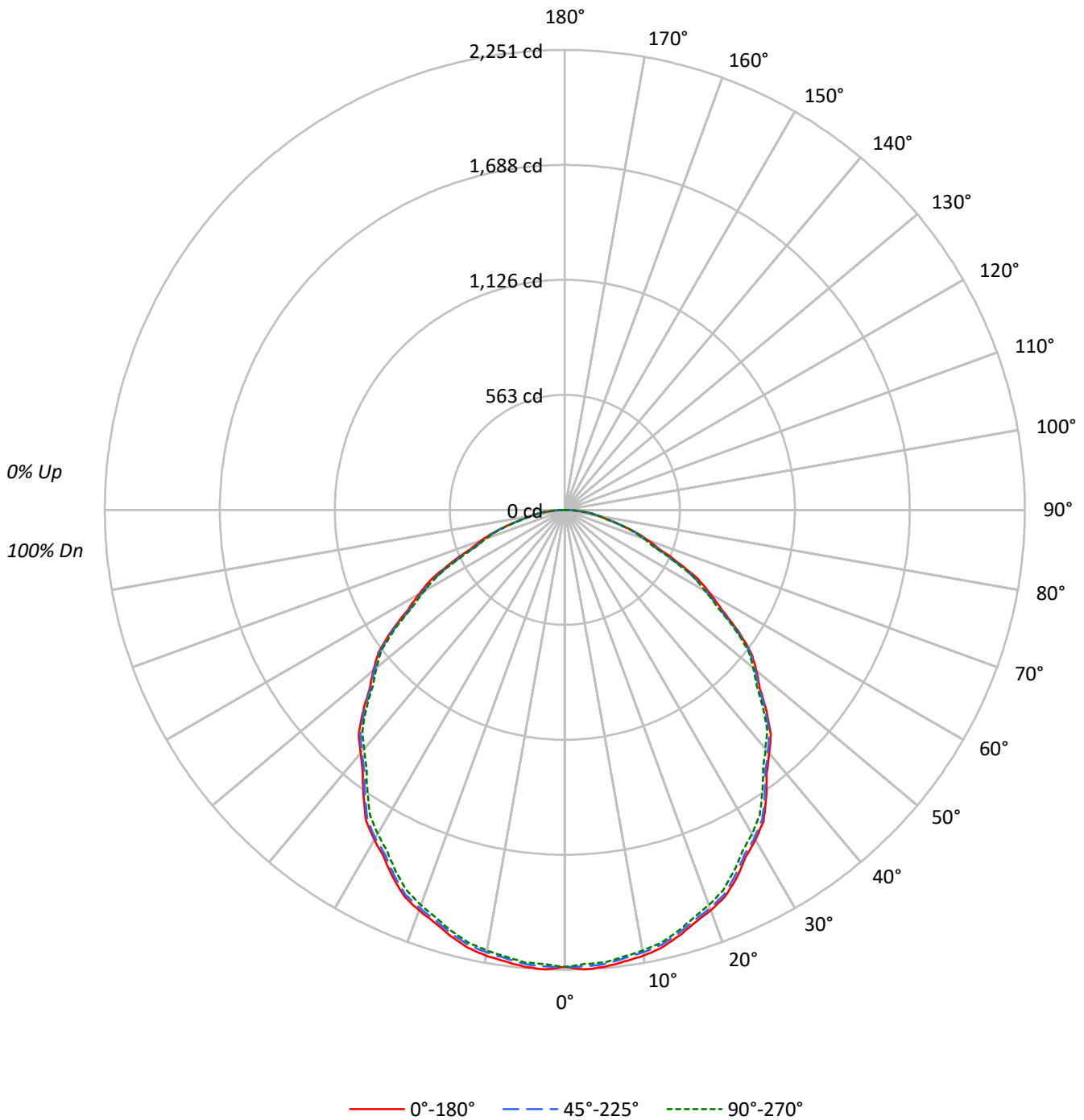
Lumens per Lamp: N/A  
Luminaire Lumens: 5726.3 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 55.3  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

**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	3.7
10°-20°	604.1	10.5
20°-30°	904.8	15.8
30°-40°	1061.3	18.5
40°-50°	1064.6	18.6
50°-60°	908.2	15.9
60°-70°	592.3	10.3
70°-80°	297.2	5.2
80°-90°	82.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1720.4	30.0
0°-40°	2781.7	48.6
0°-60°	4754.6	83.0
0°-90°	5726.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5726.3	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	78
90°	0	0	0	0	0	



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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°	17.3	23.4	25.1	25.1	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)