

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: P563773

Luminaire Tested: **SQ4-PP3-150U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563773  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-050D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

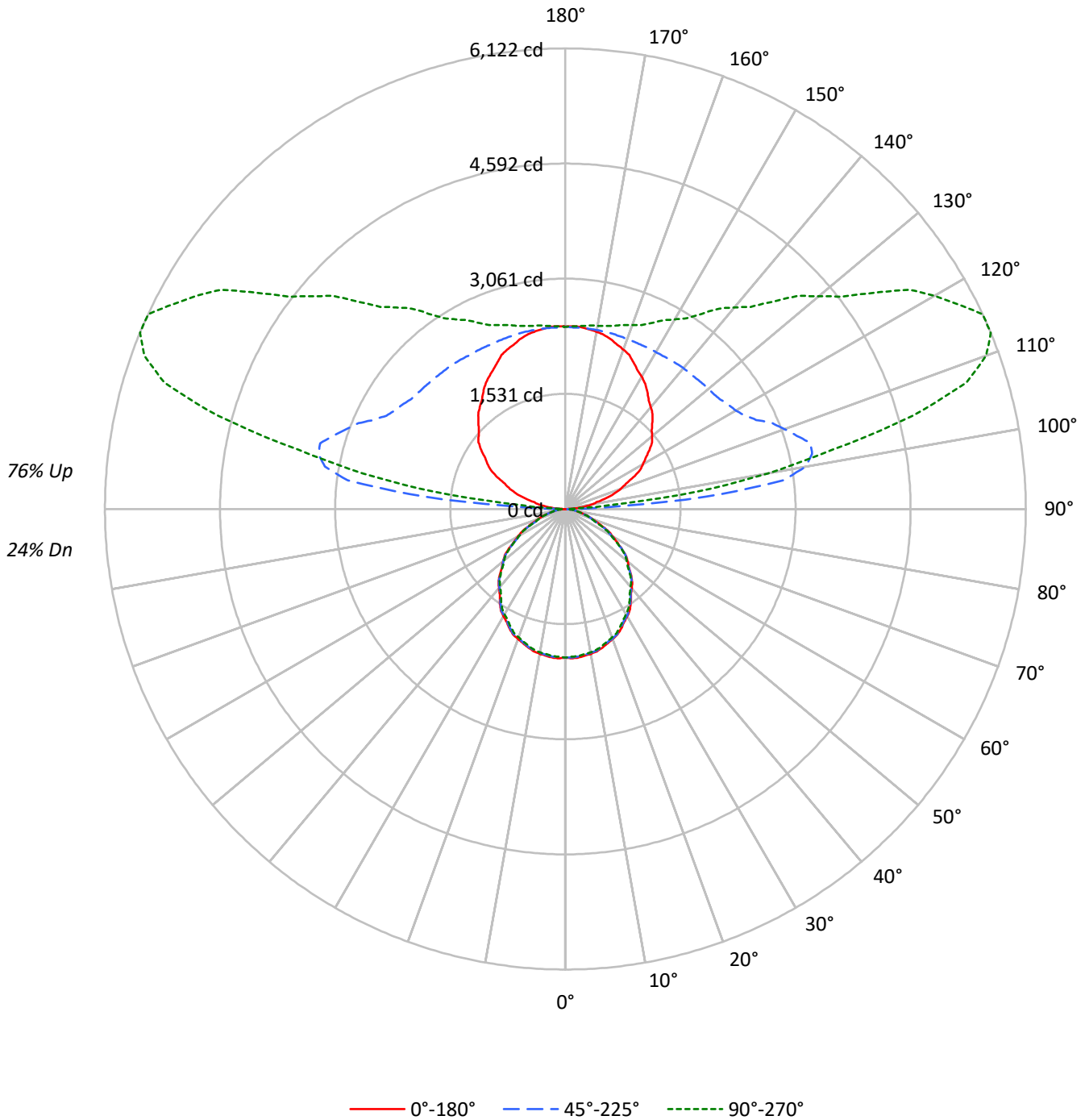
Lumens per Lamp: N/A  
Luminaire Lumens: 20683.3 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 168.9  
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.8	0.9
10°-20°	533.3	2.6
20°-30°	798.8	3.9
30°-40°	937.0	4.5
40°-50°	939.9	4.5
50°-60°	801.8	3.9
60°-70°	522.9	2.5
70°-80°	262.4	1.3
80°-90°	77.6	0.4
90°-100°	1126.1	5.4
100°-110°	3044.8	14.7
110°-120°	3201.2	15.5
120°-130°	2600.2	12.6
130°-140°	2039.6	9.9
140°-150°	1565.4	7.6
150°-160°	1125.8	5.4
160°-170°	687.8	3.3
170°-180°	231.9	1.1
0°-30°	1518.9	7.3
0°-40°	2455.9	11.9
0°-60°	4197.6	20.3
0°-90°	5060.5	24.5
90°-120°	7372.0	35.6
90°-150°	13577.3	65.6
90°-180°	15623.0	75.5
0°-180°	20683.3	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°	5	15	34	36	34	14
95°	175	613	1873	969	576	183
105°	566	875	3378	4982	4778	596
115°	996	1218	2801	5423	6122	984
125°	1364	1563	2525	4261	5005	1216
135°	1635	1829	2457	3440	3894	1264
145°	1902	2044	2423	2945	3169	1190
155°	2147	2231	2402	2642	2728	990
165°	2337	2360	2413	2507	2520	658
175°	2426	2423	2415	2446	2441	230
180°	2423	2423	2423	2423	2423	



TEST NUMBER: P563773

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**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°	16.3	23.7	28.9	29.5	30.3
90°	5.2	15.4	33.9	36.5	33.9
92.5°	74.1	269.9	532.6	231.2	167.5
95°	174.8	613.4	1872.8	969.2	576.4
97.5°	280.7	703.5	2919.2	2415.8	1774.2
100°	359.9	739.9	3244.7	3383.9	2736.1
102.5°	433.0	790.5	3359.5	4117.9	3633.4
105°	566.0	874.6	3377.8	4982.5	4778.4
107.5°	689.1	970.7	3230.1	5521.8	5589.6
110°	785.1	1040.1	3098.7	5666.6	5954.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	870.7	1109.4	2977.7	5637.7	6121.7
115°	996.4	1218.3	2801.3	5422.9	6121.7
117.5°	1119.5	1327.6	2685.0	5094.8	5887.0
120°	1194.6	1398.6	2616.1	4859.4	5667.9
122.5°	1265.6	1465.5	2574.4	4607.1	5421.6
125°	1364.1	1563.1	2524.8	4260.7	5005.4
127.5°	1454.9	1650.3	2495.6	3978.0	4632.9
130°	1505.0	1706.5	2483.1	3803.3	4395.0
132.5°	1557.2	1756.6	2470.6	3645.8	4190.5
135°	1635.4	1829.2	2457.0	3440.2	3894.2
137.5°	1714.2	1897.3	2445.6	3273.5	3643.3
140°	1768.4	1939.3	2441.4	3166.1	3495.1
142.5°	1820.6	1981.3	2433.0	3069.2	3357.4
145°	1901.5	2044.3	2423.1	2944.7	3169.1
147.5°	1975.0	2101.5	2411.6	2831.9	3004.3
150°	2029.3	2141.5	2407.5	2770.6	2908.3
152.5°	2079.3	2177.3	2405.4	2713.7	2826.9
155°	2146.6	2230.8	2402.3	2641.6	2728.3
157.5°	2216.5	2275.2	2402.8	2591.4	2648.5
160°	2256.2	2304.6	2404.9	2559.7	2600.5
162.5°	2287.5	2327.8	2407.0	2534.4	2565.0
165°	2337.0	2360.0	2412.7	2506.9	2519.6
167.5°	2371.0	2386.8	2413.2	2483.3	2489.4
170°	2391.8	2399.5	2415.3	2472.7	2472.7
172.5°	2408.5	2410.0	2415.3	2460.1	2458.1
175°	2425.7	2423.2	2415.3	2446.5	2441.4
177.5°	2431.5	2425.3	2414.8	2435.5	2429.4
180°	2423.1	2423.1	2423.1	2423.1	2423.1

(END OF REPORT)