

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: P564488

Luminaire Tested: **SQ4-PR1-150U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564488  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

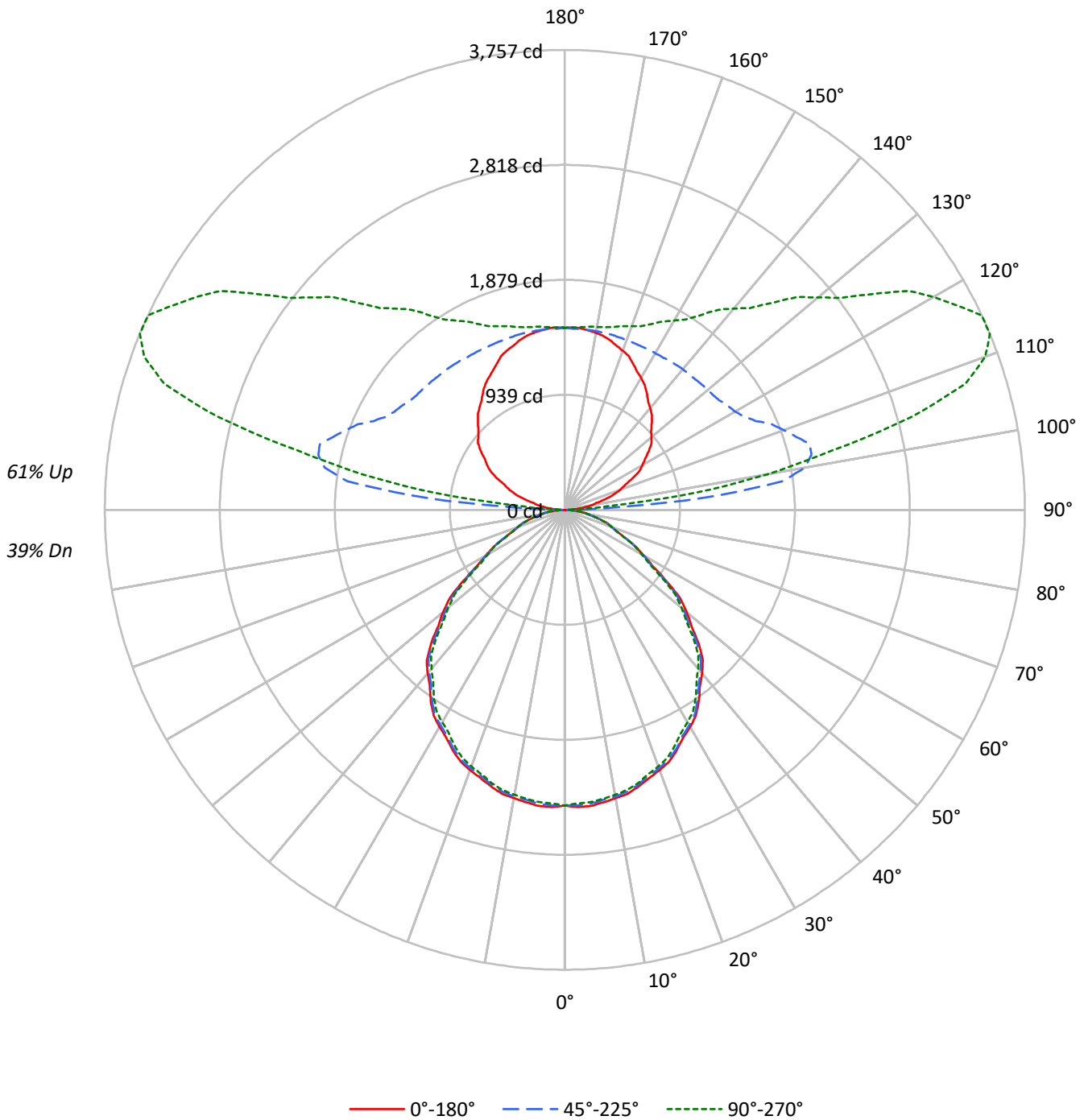
Lumens per Lamp: N/A  
Luminaire Lumens: 15629.9 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 148.4  
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	11145	11145	11145
5°	11246	11159	11101
10°	11210	11132	11073
15°	11161	11091	11031
20°	11105	11033	10951
25°	11026	10952	10825
30°	10907	10830	10674
35°	10746	10653	10500
40°	10501	10389	10201
45°	10074	9897	9693
50°	9319	9095	8916
55°	8134	7949	7782
60°	6854	6797	6662
65°	5928	5951	5905
70°	5445	5473	5473
75°	5229	5229	5267
80°	4920	4976	4920
85°	3964	4404	4404



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.5	1.5
10°-20°	653.7	4.2
20°-30°	985.9	6.3
30°-40°	1174.7	7.5
40°-50°	1158.2	7.4
50°-60°	885.1	5.7
60°-70°	547.8	3.5
70°-80°	311.1	2.0
80°-90°	97.7	0.6
90°-100°	691.1	4.4
100°-110°	1868.5	12.0
110°-120°	1964.4	12.6
120°-130°	1595.6	10.2
130°-140°	1251.7	8.0
140°-150°	960.7	6.1
150°-160°	690.9	4.4
160°-170°	422.1	2.7
170°-180°	142.3	0.9
0°-30°	1868.1	12.0
0°-40°	3042.8	19.5
0°-60°	5086.1	32.5
0°-90°	6042.7	38.7
90°-120°	4524.0	28.9
90°-150°	8331.9	53.3
90°-180°	9587.0	61.3
0°-180°	15629.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2416	2416	2416	2416	2416	
5°	2428	2402	2410	2401	2397	230
15°	2337	2312	2322	2314	2310	659
25°	2166	2140	2152	2129	2127	997
35°	1908	1886	1892	1867	1864	1191
45°	1544	1524	1517	1490	1486	1183
55°	1011	995	988	972	968	906
65°	543	539	545	541	541	550
75°	293	293	293	296	296	310
85°	75	79	83	83	83	87
90°	3	10	21	22	21	10
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2416.0	2416.0	2416.0	2416.0	2416.0
2.5°	2430.9	2409.8	2416.0	2410.7	2399.3
5°	2428.5	2402.0	2409.7	2401.3	2397.2
7.5°	2409.7	2383.7	2391.4	2383.0	2380.6
10°	2393.1	2368.7	2376.4	2368.0	2363.9
12.5°	2374.8	2348.7	2358.1	2348.0	2344.0
15°	2336.9	2312.5	2322.3	2313.9	2309.8
17.5°	2295.3	2269.2	2279.0	2269.3	2264.1
20°	2262.0	2237.6	2247.4	2232.8	2230.8
22.5°	2225.4	2200.9	2210.8	2191.2	2190.8
25°	2166.3	2139.8	2151.7	2128.8	2126.7
27.5°	2095.9	2071.5	2081.4	2058.0	2055.5
30°	2047.6	2023.2	2033.1	2008.0	2003.9
32.5°	1992.7	1969.9	1978.1	1953.1	1950.7
35°	1908.2	1885.8	1891.6	1866.6	1864.5
37.5°	1812.1	1791.7	1795.0	1767.5	1765.5
40°	1743.8	1723.5	1725.1	1695.9	1693.9
42.5°	1668.9	1648.6	1646.9	1617.7	1615.6
45°	1544.1	1523.7	1517.0	1489.9	1485.8
47.5°	1401.7	1381.4	1368.8	1346.7	1343.9
50°	1298.5	1278.2	1267.3	1248.4	1242.3
52.5°	1187.0	1166.6	1157.4	1140.2	1134.1
55°	1011.3	995.1	988.4	971.7	967.6
57.5°	844.4	833.5	831.5	815.3	813.6
60°	742.9	736.8	736.7	722.1	722.1
62.5°	656.3	651.9	655.1	645.5	643.8
65°	543.1	539.1	545.2	541.0	541.0
67.5°	453.6	453.6	457.4	455.7	455.7
70°	403.7	403.7	405.8	405.8	405.8
72.5°	358.8	357.1	362.5	362.5	360.8
75°	293.4	293.4	293.4	295.5	295.5
77.5°	228.5	228.9	230.6	230.1	228.5
80°	185.2	187.2	187.3	185.2	185.2
82.5°	141.9	144.0	144.0	143.5	141.9
85°	74.9	79.0	83.2	83.2	83.2
87.5°	22.3	30.0	37.5	37.7	35.8
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)