

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: P563684

Luminaire Tested: **SQ4-PP3-125U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563684  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-075D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

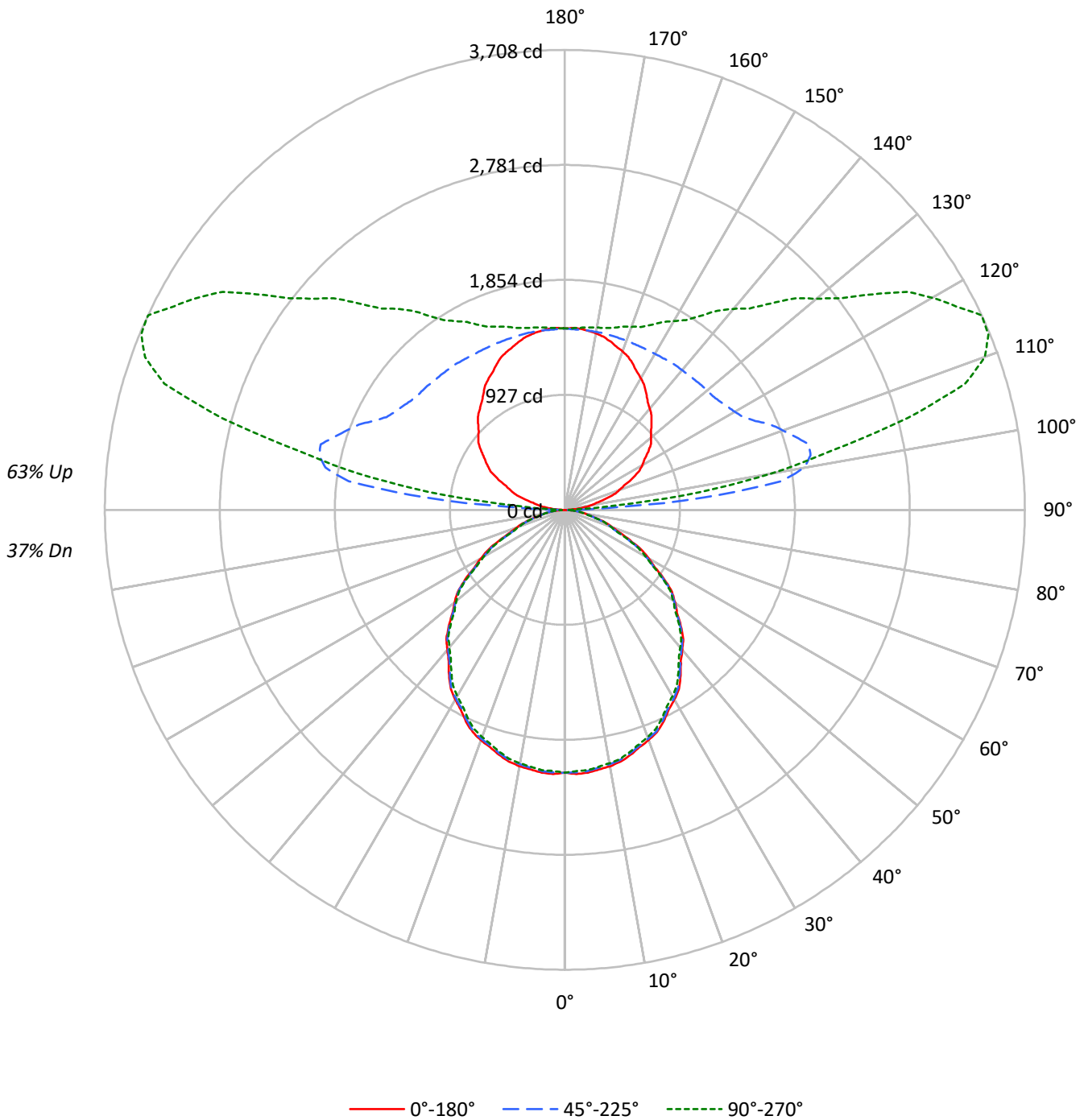
Lumens per Lamp: N/A  
Luminaire Lumens: 14864.9 lumens  
Efficiency: N/A  
Efficacy: 128.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 116  
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	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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

	0°	45°	90°
0°	9776	9776	9776
5°	9848	9787	9753
10°	9831	9761	9718
15°	9766	9713	9660
20°	9701	9646	9573
25°	9586	9520	9425
30°	9409	9359	9240
35°	9163	9099	8985
40°	8869	8813	8713
45°	8627	8567	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6326	6061	6042
70°	5461	5236	5236
75°	4700	4634	4568
80°	4144	4195	4096
85°	3245	3541	3541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.4	1.3
10°-20°	572.2	3.8
20°-30°	857.0	5.8
30°-40°	1005.2	6.8
40°-50°	1008.4	6.8
50°-60°	860.2	5.8
60°-70°	561.0	3.8
70°-80°	281.5	1.9
80°-90°	81.3	0.5
90°-100°	683.9	4.6
100°-110°	1842.3	12.4
110°-120°	1933.4	13.0
120°-130°	1568.9	10.6
130°-140°	1230.4	8.3
140°-150°	944.7	6.4
150°-160°	679.2	4.6
160°-170°	415.0	2.8
170°-180°	139.9	0.9
0°-30°	1629.6	11.0
0°-40°	2634.8	17.7
0°-60°	4503.4	30.3
0°-90°	5427.3	36.5
90°-120°	4459.5	30.0
90°-150°	8203.5	55.2
90°-180°	9438.0	63.5
0°-180°	14864.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2127	2107	2114	2106	2106	202
15°	2045	2025	2034	2026	2023	577
25°	1883	1862	1870	1854	1852	866
35°	1627	1611	1616	1597	1595	1016
45°	1322	1313	1313	1300	1300	1018
55°	981	977	968	962	960	871
65°	580	569	555	552	554	578
75°	264	264	260	258	256	286
85°	61	67	67	67	67	72
90°	4	11	22	24	24	10
95°	104	372	1121	573	397	109
105°	341	530	2037	3048	2861	358
115°	602	736	1697	3278	3708	592
125°	821	943	1523	2575	3030	733
135°	989	1104	1481	2077	2352	763
145°	1144	1233	1462	1776	1907	717
155°	1298	1345	1449	1594	1644	598
165°	1408	1424	1454	1512	1520	397
175°	1464	1462	1456	1477	1473	139
180°	1462	1462	1462	1462	1462	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2132.5	2115.1	2119.1	2116.0	2107.2
5°	2126.6	2106.6	2113.6	2106.1	2106.1
7.5°	2112.1	2090.3	2097.2	2089.8	2089.4
10°	2098.7	2076.9	2083.8	2076.4	2074.6
12.5°	2079.4	2057.6	2066.0	2057.1	2056.7
15°	2044.8	2024.9	2033.7	2026.2	2022.6
17.5°	2005.8	1984.0	1994.7	1984.3	1982.8
20°	1976.1	1954.3	1965.0	1950.1	1950.1
22.5°	1940.5	1918.7	1930.8	1911.5	1911.5
25°	1883.3	1861.5	1870.3	1853.5	1851.7
27.5°	1815.3	1793.9	1803.0	1784.1	1783.7
30°	1766.3	1746.3	1757.0	1736.5	1734.7
32.5°	1712.8	1694.2	1702.0	1681.5	1679.7
35°	1627.0	1610.6	1615.8	1597.2	1595.4
37.5°	1536.7	1520.0	1525.9	1509.9	1509.2
40°	1472.8	1461.9	1463.5	1450.4	1446.8
42.5°	1413.4	1401.0	1402.6	1389.6	1388.9
45°	1322.4	1313.3	1313.1	1300.1	1300.1
47.5°	1225.8	1218.9	1216.9	1206.1	1205.7
50°	1158.9	1153.5	1151.5	1142.2	1140.4
52.5°	1089.1	1086.6	1080.2	1072.4	1072.0
55°	980.6	977.0	967.6	962.0	960.2
57.5°	862.9	855.6	845.1	836.9	838.4
60°	778.2	770.9	755.9	752.2	752.2
62.5°	696.5	687.8	672.7	667.6	670.5
65°	579.5	568.6	555.3	551.6	553.5
67.5°	473.2	463.4	449.1	449.1	447.6
70°	404.9	399.4	388.2	388.2	388.2
72.5°	344.0	341.4	333.2	333.2	331.7
75°	263.7	263.7	260.0	258.1	256.3
77.5°	197.6	198.3	196.5	194.6	191.3
80°	156.0	159.6	157.9	156.0	154.2
82.5°	117.4	121.0	120.7	117.4	117.0
85°	61.3	66.7	66.9	66.9	66.9
87.5°	17.1	24.4	28.2	28.6	30.1
90°	3.7	11.0	22.3	24.2	24.2
92.5°	45.4	160.5	317.3	152.8	106.2
95°	104.3	372.0	1121.1	573.3	396.7
97.5°	166.5	425.8	1758.4	1469.0	1107.7
100°	214.2	447.3	1961.0	2051.8	1702.2
102.5°	260.4	477.4	2028.1	2488.3	2201.3
105°	340.8	530.2	2037.4	3048.1	2860.6
107.5°	416.8	585.8	1950.6	3335.8	3384.2
110°	467.4	627.7	1871.6	3425.1	3601.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	521.1	669.7	1795.7	3405.4	3695.6
115°	601.5	736.3	1696.6	3278.2	3707.9
117.5°	674.9	801.3	1619.9	3075.2	3553.7
120°	722.6	844.6	1581.1	2929.5	3421.1
122.5°	764.3	884.9	1552.8	2780.4	3270.6
125°	821.3	943.3	1523.4	2574.8	3030.0
127.5°	876.0	996.2	1504.8	2393.4	2799.8
130°	908.8	1029.0	1497.3	2289.5	2646.4
132.5°	941.6	1060.3	1489.9	2197.9	2525.7
135°	988.9	1103.6	1480.6	2077.2	2352.1
137.5°	1034.0	1144.0	1475.7	1974.7	2200.5
140°	1065.3	1170.9	1471.2	1911.7	2115.6
142.5°	1098.0	1196.4	1468.3	1852.8	2024.7
145°	1143.5	1232.7	1461.9	1775.9	1907.0
147.5°	1192.6	1270.2	1455.6	1711.2	1814.3
150°	1225.4	1292.8	1452.6	1670.6	1756.2
152.5°	1255.2	1313.9	1451.1	1637.5	1707.0
155°	1298.0	1345.4	1448.9	1593.5	1644.4
157.5°	1335.7	1372.5	1449.3	1562.5	1596.8
160°	1359.5	1390.5	1450.8	1544.5	1570.0
162.5°	1380.4	1405.5	1452.3	1529.4	1547.6
165°	1407.9	1424.3	1454.5	1512.4	1519.7
167.5°	1430.3	1439.7	1456.3	1499.2	1502.2
170°	1445.2	1448.8	1456.3	1491.7	1491.7
172.5°	1454.1	1454.8	1457.8	1484.3	1484.3
175°	1463.8	1462.0	1456.3	1476.8	1473.1
177.5°	1467.9	1465.0	1457.5	1469.3	1466.4
180°	1461.9	1461.9	1461.9	1461.9	1461.9

(END OF REPORT)