

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: P563708

Luminaire Tested: **SQ4-PP3-125U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563708
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-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

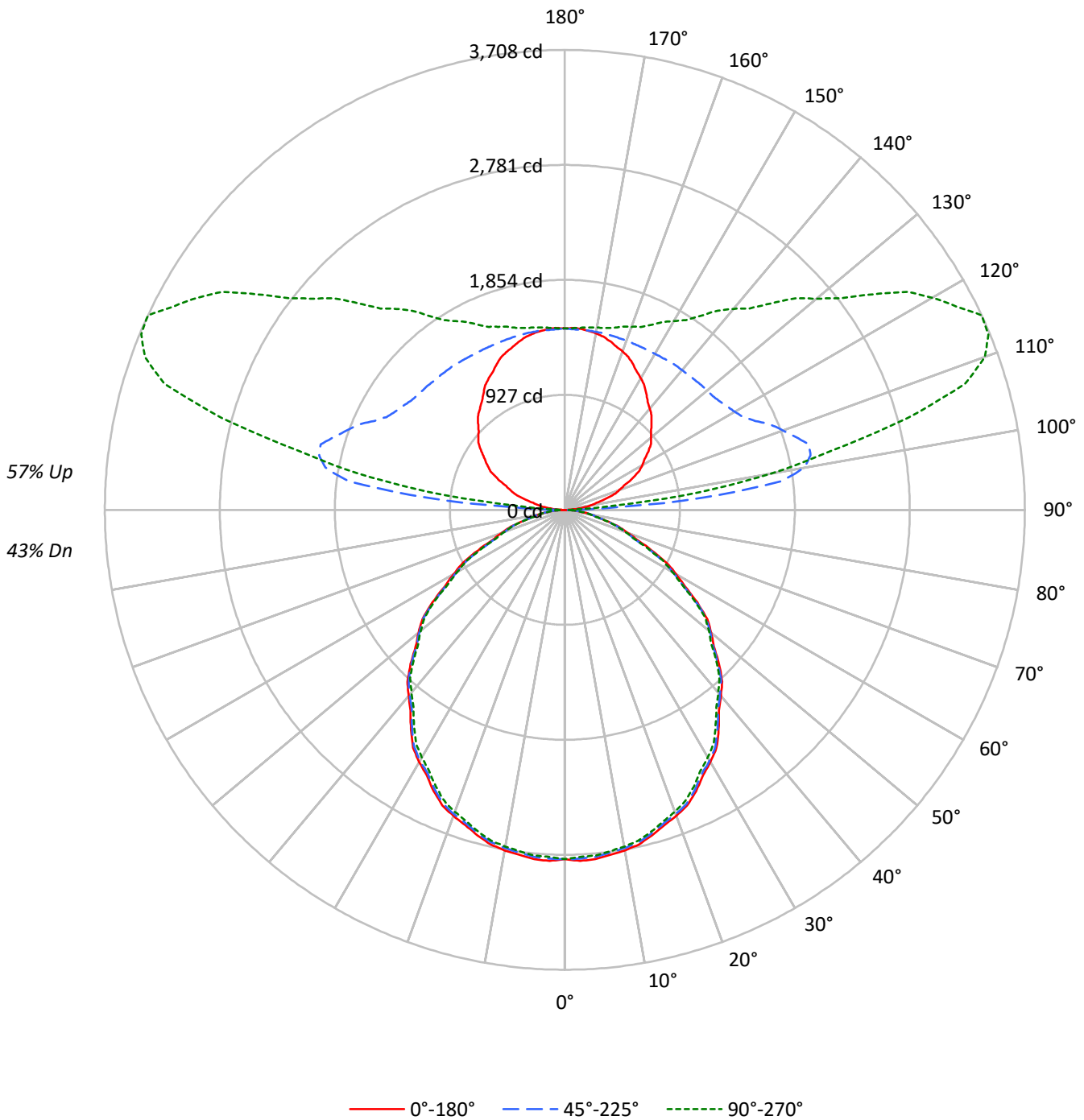
Lumens per Lamp: N/A
Luminaire Lumens: 16647.7 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.3
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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43	43	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37	37	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31	31	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26	26	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23	23	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20	20	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17	17	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15	15	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14	14	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12	12	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13062	12970	12912
15°	12976	12905	12835
20°	12890	12817	12720
25°	12737	12649	12523
30°	12501	12435	12278
35°	12174	12090	11938
40°	11784	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8404	8055	8027
70°	7256	6957	6957
75°	6245	6158	6069
80°	5507	5574	5441
85°	4308	4700	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	1.6
10°-20°	760.2	4.6
20°-30°	1138.7	6.8
30°-40°	1335.7	8.0
40°-50°	1339.8	8.0
50°-60°	1143.0	6.9
60°-70°	745.4	4.5
70°-80°	374.0	2.2
80°-90°	106.9	0.6
90°-100°	683.9	4.1
100°-110°	1842.3	11.1
110°-120°	1933.4	11.6
120°-130°	1568.9	9.4
130°-140°	1230.4	7.4
140°-150°	944.7	5.7
150°-160°	679.2	4.1
160°-170°	415.0	2.5
170°-180°	139.9	0.8
0°-30°	2165.2	13.0
0°-40°	3500.9	21.0
0°-60°	5983.7	35.9
0°-90°	7210.0	43.3
90°-120°	4459.5	26.8
90°-150°	8203.5	49.3
90°-180°	9438.0	56.7
0°-180°	16647.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2826	2799	2808	2798	2798	268
15°	2717	2690	2702	2692	2687	767
25°	2502	2473	2485	2463	2460	1151
35°	2162	2140	2147	2122	2120	1350
45°	1757	1745	1745	1727	1727	1353
55°	1303	1298	1286	1278	1276	1158
65°	770	756	738	733	735	768
75°	350	350	346	343	340	380
85°	81	89	89	89	89	96
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°	2815.7	2815.7	2815.7	2815.7	2815.7
2.5°	2833.5	2810.3	2815.7	2811.5	2799.9
5°	2825.6	2799.0	2808.3	2798.4	2798.4
7.5°	2806.3	2777.4	2786.6	2776.7	2776.2
10°	2788.5	2759.6	2768.8	2758.9	2756.5
12.5°	2762.9	2733.9	2745.1	2733.3	2732.8
15°	2717.0	2690.4	2702.2	2692.2	2687.4
17.5°	2665.2	2636.2	2650.4	2636.5	2634.6
20°	2625.7	2596.7	2610.9	2591.1	2591.1
22.5°	2578.3	2549.3	2565.5	2539.8	2539.8
25°	2502.3	2473.3	2485.0	2462.8	2460.3
27.5°	2412.0	2383.5	2395.7	2370.5	2370.0
30°	2346.8	2320.3	2334.5	2307.3	2304.9
32.5°	2275.8	2251.1	2261.4	2234.2	2231.8
35°	2161.7	2140.0	2146.9	2122.2	2119.8
37.5°	2041.8	2019.6	2027.5	2006.3	2005.3
40°	1956.9	1942.4	1944.6	1927.2	1922.4
42.5°	1878.0	1861.5	1863.6	1846.3	1845.4
45°	1757.0	1745.0	1744.7	1727.4	1727.4
47.5°	1628.7	1619.5	1616.9	1602.5	1602.1
50°	1539.9	1532.6	1530.0	1517.6	1515.2
52.5°	1447.1	1443.7	1435.2	1424.9	1424.4
55°	1303.0	1298.1	1285.7	1278.2	1275.8
57.5°	1146.5	1136.9	1122.8	1112.0	1113.9
60°	1034.0	1024.3	1004.4	999.4	999.4
62.5°	925.4	913.8	893.8	887.0	890.9
65°	769.9	755.5	737.9	733.0	735.4
67.5°	628.8	615.8	596.7	596.7	594.7
70°	538.0	530.7	515.8	515.8	515.8
72.5°	457.0	453.6	442.7	442.7	440.7
75°	350.4	350.4	345.5	343.0	340.5
77.5°	262.6	263.5	261.1	258.5	254.2
80°	207.3	212.1	209.8	207.2	204.8
82.5°	156.0	160.8	160.4	156.0	155.5
85°	81.4	88.7	88.8	88.8	88.8
87.5°	22.5	31.6	36.1	36.5	38.4
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)