

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: P520354

Luminaire Tested: **SQ4-F-125U-125D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520354
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

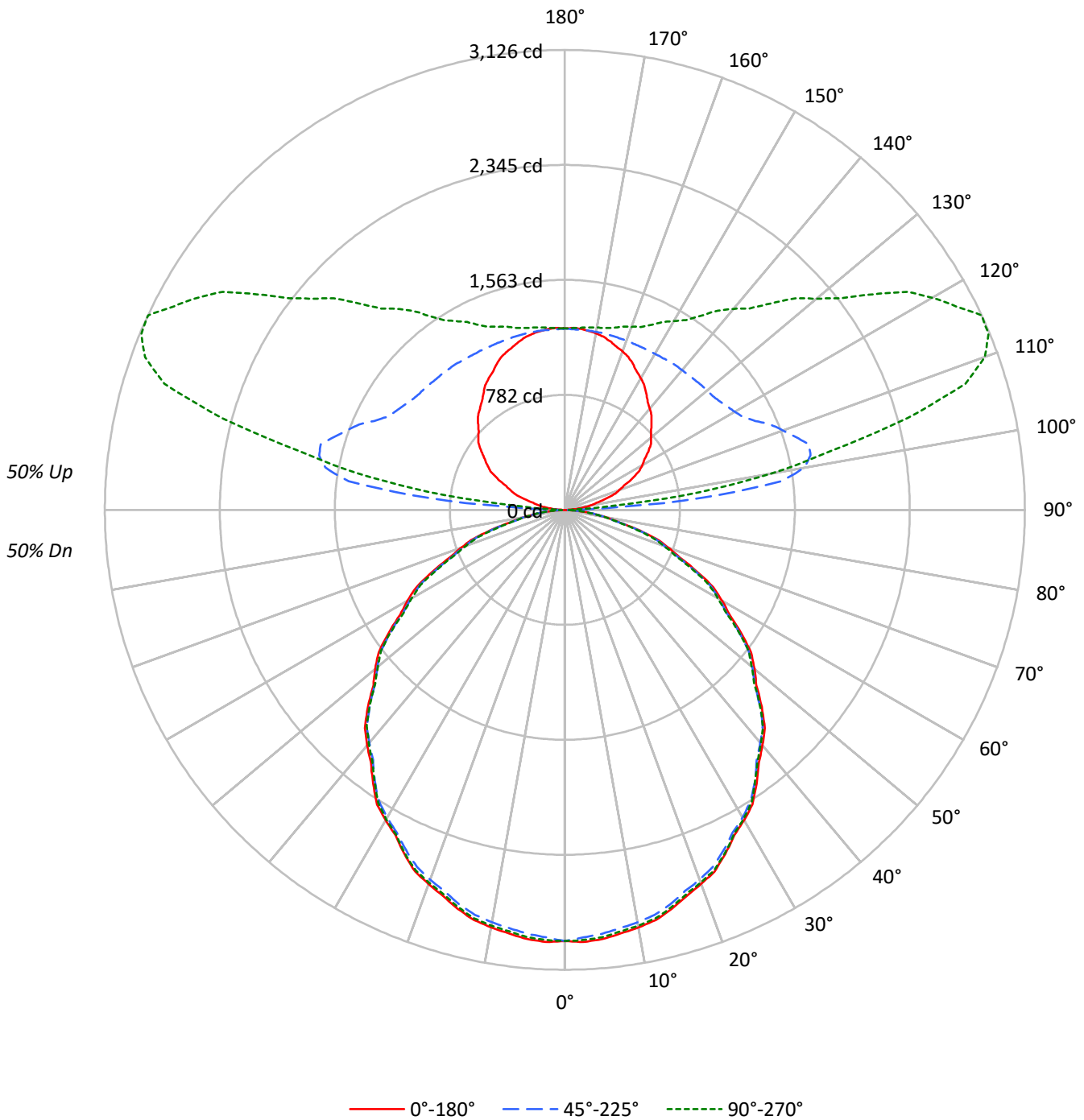
Lumens per Lamp: N/A
Luminaire Lumens: 15955.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 142
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13521	13521	13521
5°	13565	13393	13505
10°	13502	13336	13442
15°	13412	13250	13358
20°	13288	13137	13240
25°	13136	12997	13103
30°	12974	12863	12931
35°	12790	12681	12690
40°	12579	12443	12482
45°	12343	12208	12228
50°	12073	11935	11900
55°	11766	11598	11572
60°	11385	11131	11072
65°	10793	10564	10423
70°	10051	9791	9660
75°	8942	8739	8480
80°	7287	7069	7027
85°	4356	4949	4949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.7
10°-20°	787.6	4.9
20°-30°	1183.3	7.4
30°-40°	1411.9	8.8
40°-50°	1447.2	9.1
50°-60°	1289.9	8.1
60°-70°	960.3	6.0
70°-80°	520.2	3.3
80°-90°	122.3	0.8
90°-100°	576.6	3.6
100°-110°	1553.1	9.7
110°-120°	1629.9	10.2
120°-130°	1322.7	8.3
130°-140°	1037.3	6.5
140°-150°	796.4	5.0
150°-160°	572.6	3.6
160°-170°	349.8	2.2
170°-180°	118.0	0.7
0°-30°	2247.4	14.1
0°-40°	3659.3	22.9
0°-60°	6396.4	40.1
0°-90°	7999.2	50.1
90°-120°	3759.6	23.6
90°-150°	6916.0	43.3
90°-180°	7956.0	49.9
0°-180°	15955.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2931	2931	2931	2931	2931	
5°	2929	2924	2892	2918	2916	278
15°	2808	2802	2774	2798	2797	792
25°	2581	2576	2554	2568	2574	1189
35°	2271	2270	2252	2252	2253	1420
45°	1892	1887	1871	1868	1874	1458
55°	1463	1458	1442	1431	1439	1307
65°	989	982	968	961	955	979
75°	502	502	490	481	476	533
85°	82	93	94	95	94	114
90°	3	9	19	20	20	8
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2930.9	2930.9	2930.9	2930.9	2930.9
2.5°	2939.9	2934.8	2908.9	2930.8	2927.0
5°	2929.3	2924.5	2892.2	2917.9	2916.3
7.5°	2904.4	2898.5	2869.0	2893.1	2890.2
10°	2882.4	2877.8	2847.0	2871.2	2869.6
12.5°	2855.4	2850.6	2819.9	2844.0	2843.7
15°	2808.3	2802.0	2774.4	2798.5	2797.0
17.5°	2751.8	2744.6	2717.3	2736.4	2739.5
20°	2706.7	2701.9	2676.0	2693.8	2697.0
22.5°	2660.2	2654.2	2626.9	2647.4	2650.6
25°	2580.8	2576.1	2553.5	2568.1	2574.3
27.5°	2493.8	2493.8	2472.8	2483.2	2487.0
30°	2435.7	2435.7	2414.7	2421.3	2427.6
32.5°	2373.8	2368.7	2348.9	2354.2	2360.5
35°	2271.1	2269.6	2251.7	2251.8	2253.4
37.5°	2165.0	2160.6	2141.2	2142.6	2150.2
40°	2088.9	2085.7	2066.3	2066.5	2072.7
42.5°	2011.4	2008.3	1991.5	1988.9	1991.5
45°	1892.0	1887.4	1871.2	1868.0	1874.3
47.5°	1764.9	1766.3	1746.9	1742.4	1745.9
50°	1682.3	1682.3	1663.0	1653.5	1658.2
52.5°	1595.9	1593.4	1574.0	1563.2	1574.3
55°	1463.0	1458.2	1442.0	1430.9	1438.8
57.5°	1326.9	1319.6	1303.3	1291.1	1295.6
60°	1234.0	1222.9	1206.5	1197.0	1200.1
62.5°	1137.2	1131.2	1113.7	1099.0	1105.8
65°	988.8	982.5	967.8	961.2	954.9
67.5°	843.2	839.2	822.7	815.8	811.6
70°	745.2	737.3	725.9	717.8	716.2
72.5°	649.8	640.5	629.1	622.2	618.1
75°	501.7	501.7	490.3	480.6	475.8
77.5°	360.7	361.9	352.6	349.4	347.1
80°	274.3	274.3	266.1	263.0	264.5
82.5°	191.7	195.4	192.6	188.0	185.8
85°	82.3	93.3	93.5	95.2	93.5
87.5°	14.8	24.9	28.4	26.0	23.5
90°	3.2	9.3	18.8	20.4	20.4
92.5°	38.3	135.4	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.8
100°	180.6	377.0	1653.2	1729.8	1435.1
102.5°	219.4	402.5	1709.8	2097.8	1855.8
105°	287.3	447.0	1717.7	2569.7	2411.6
107.5°	351.4	493.9	1644.5	2812.2	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.7
115°	507.2	620.7	1430.3	2763.7	3126.0
117.5°	568.9	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.3	746.0	1309.1	2344.0	2757.4
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.7	2360.4
130°	766.2	867.5	1262.3	1930.1	2231.1
132.5°	793.8	893.9	1256.1	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.1	1983.0
137.5°	871.7	964.4	1244.2	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.1	1706.9
145°	964.0	1039.2	1232.5	1497.2	1607.8
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.3	1107.7	1223.4	1380.5	1439.1
155°	1094.4	1134.2	1221.5	1343.4	1386.3
157.5°	1126.0	1157.0	1221.9	1317.3	1346.2
160°	1146.2	1172.2	1223.0	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.3	1304.7
165°	1186.9	1200.7	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.5
170°	1218.4	1221.5	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.1	1251.4	1251.4
175°	1234.1	1232.5	1227.8	1244.9	1241.9
177.5°	1237.5	1235.1	1228.8	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)