

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: P520330

Luminaire Tested: **SQ4-F-125U-100D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520330
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

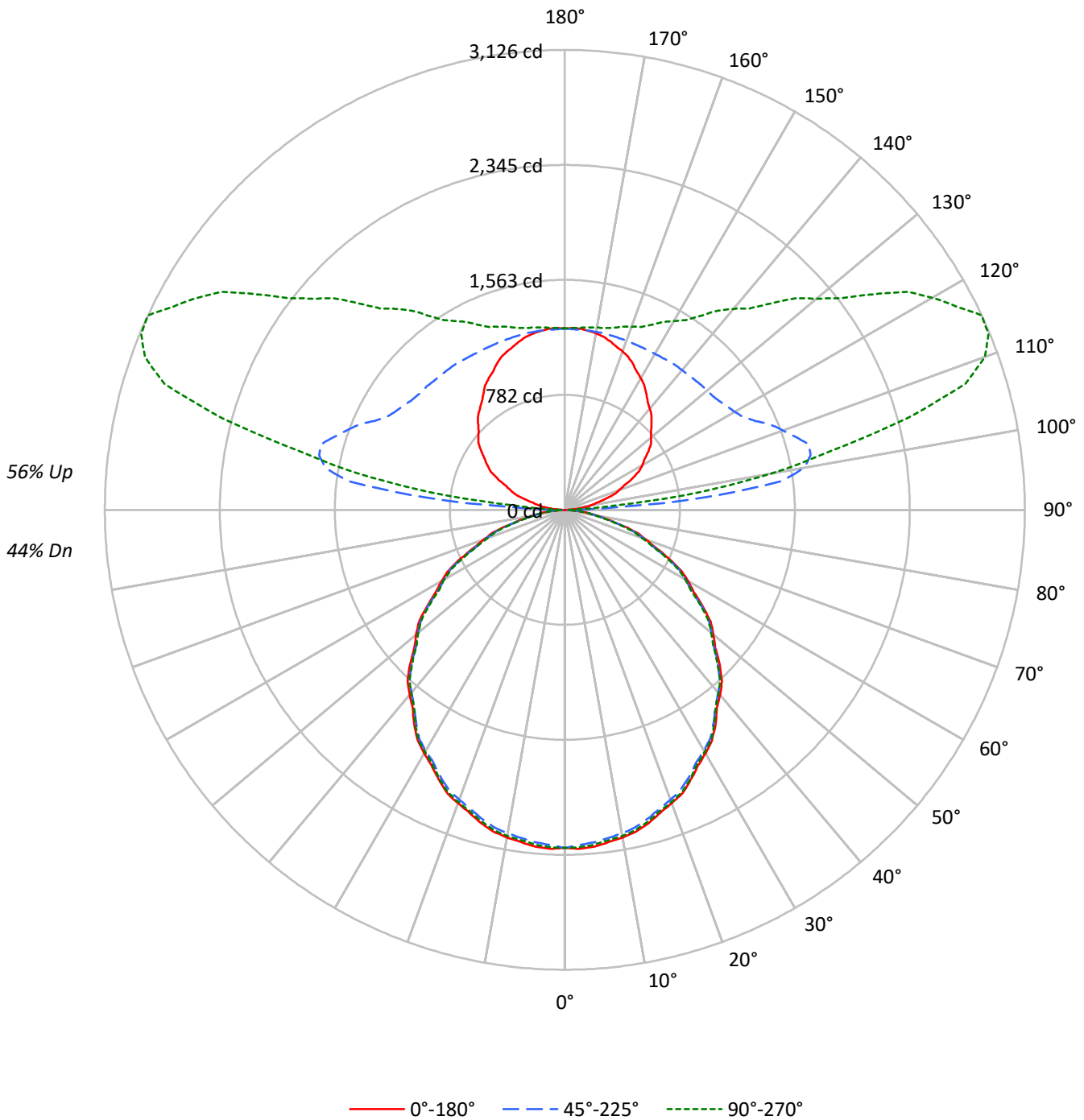
Lumens per Lamp: N/A
Luminaire Lumens: 14225.8 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 123.2
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36	31
3	80	71	63	57	73	65	59	53	54	49	45	44	41	38	35	32	30	26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	33	38	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	30	24	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10599	10599	10599
5°	10646	10501	10581
10°	10593	10459	10541
15°	10528	10386	10468
20°	10420	10296	10381
25°	10306	10186	10265
30°	10180	10071	10122
35°	10053	9928	9982
40°	9886	9772	9781
45°	9711	9578	9546
50°	9461	9348	9325
55°	9182	9080	9017
60°	8904	8744	8715
65°	8468	8279	8211
70°	7870	7677	7529
75°	7026	6802	6661
80°	5781	5574	5318
85°	3425	3753	3837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	1.5
10°-20°	617.5	4.3
20°-30°	927.3	6.5
30°-40°	1106.7	7.8
40°-50°	1134.4	8.0
50°-60°	1010.2	7.1
60°-70°	753.0	5.3
70°-80°	407.7	2.9
80°-90°	95.7	0.7
90°-100°	576.6	4.1
100°-110°	1553.1	10.9
110°-120°	1629.9	11.5
120°-130°	1322.7	9.3
130°-140°	1037.3	7.3
140°-150°	796.4	5.6
150°-160°	572.6	4.0
160°-170°	349.8	2.5
170°-180°	118.0	0.8
0°-30°	1761.7	12.4
0°-40°	2868.4	20.2
0°-60°	5012.9	35.2
0°-90°	6269.3	44.1
90°-120°	3759.6	26.4
90°-150°	6916.0	48.6
90°-180°	7956.0	55.9
0°-180°	14225.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2298	2298	2298	2298	2298	
5°	2299	2294	2268	2288	2285	218
15°	2204	2197	2175	2192	2192	621
25°	2025	2020	2001	2012	2017	933
35°	1785	1777	1763	1766	1772	1114
45°	1489	1481	1468	1460	1463	1145
55°	1142	1143	1129	1118	1121	1022
65°	776	773	758	751	752	767
75°	394	390	382	374	374	420
85°	65	71	71	72	72	90
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°	2297.5	2297.5	2297.5	2297.5	2297.5
2.5°	2306.3	2301.5	2281.2	2297.5	2295.0
5°	2299.1	2294.5	2267.6	2288.0	2284.9
7.5°	2277.7	2273.0	2249.3	2268.2	2265.4
10°	2261.3	2256.7	2232.9	2251.7	2250.3
12.5°	2239.9	2235.2	2211.4	2230.3	2228.8
15°	2204.5	2196.9	2174.6	2191.9	2191.9
17.5°	2157.8	2152.0	2131.4	2145.8	2146.1
20°	2122.5	2117.9	2097.3	2113.1	2114.6
22.5°	2087.2	2082.6	2059.4	2074.0	2076.8
25°	2024.7	2020.1	2001.1	2012.3	2016.8
27.5°	1960.4	1953.6	1934.9	1944.7	1948.2
30°	1911.2	1908.1	1890.7	1895.5	1900.2
32.5°	1859.5	1856.4	1841.5	1843.9	1852.2
35°	1785.1	1777.3	1763.0	1766.2	1772.5
37.5°	1697.1	1693.3	1679.4	1677.7	1683.5
40°	1641.6	1635.4	1622.7	1619.6	1624.3
42.5°	1581.0	1574.8	1559.6	1556.6	1562.4
45°	1488.6	1480.9	1468.1	1460.3	1463.3
47.5°	1385.2	1385.2	1371.9	1362.9	1367.5
50°	1318.3	1318.3	1302.5	1294.7	1299.4
52.5°	1248.9	1250.1	1233.2	1229.0	1227.4
55°	1141.7	1143.2	1129.0	1118.1	1121.2
57.5°	1038.3	1034.8	1018.4	1011.1	1012.7
60°	965.1	960.4	947.7	936.8	944.6
62.5°	890.7	888.5	875.8	863.5	862.6
65°	775.8	772.7	758.5	750.6	752.2
67.5°	661.7	658.0	644.9	633.7	637.7
70°	583.5	583.5	569.2	562.9	558.2
72.5°	511.6	505.4	494.8	485.9	482.5
75°	394.2	389.6	381.6	373.7	373.7
77.5°	287.0	283.0	277.8	272.5	270.9
80°	217.6	216.1	209.8	208.0	200.2
82.5°	153.3	153.0	149.2	145.1	144.8
85°	64.7	70.8	70.9	72.5	72.5
87.5°	12.0	20.6	21.4	19.2	19.2
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)