

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: P519490

Luminaire Tested: **SQ4-WB-125U-075D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519490
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-075D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

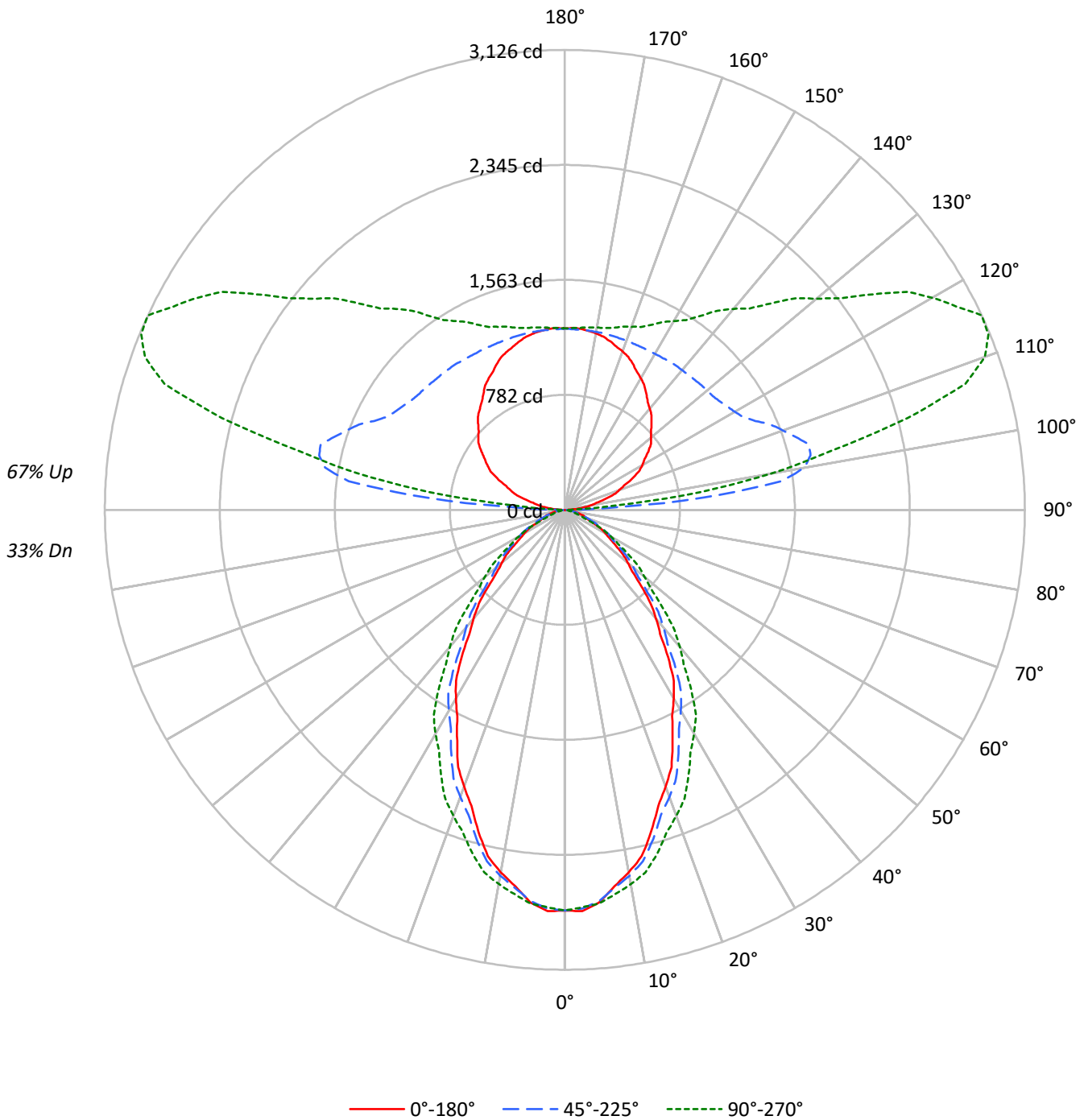
Lumens per Lamp: N/A
Luminaire Lumens: 11927.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12563	12563	12563
5°	12406	12362	12433
10°	11721	11827	12101
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8395	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4787	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2900	3241	3352
65°	2309	2726	2166
70°	2047	2127	1322
75°	1895	1725	809
80°	1745	1586	699
85°	1583	1456	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	2.1
10°-20°	649.7	5.4
20°-30°	841.6	7.1
30°-40°	824.1	6.9
40°-50°	630.8	5.3
50°-60°	420.3	3.5
60°-70°	229.4	1.9
70°-80°	95.6	0.8
80°-90°	30.0	0.3
90°-100°	576.6	4.8
100°-110°	1553.1	13.0
110°-120°	1629.9	13.7
120°-130°	1322.7	11.1
130°-140°	1037.3	8.7
140°-150°	796.4	6.7
150°-160°	572.6	4.8
160°-170°	349.8	2.9
170°-180°	118.0	1.0
0°-30°	1741.0	14.6
0°-40°	2565.1	21.5
0°-60°	3616.3	30.3
0°-90°	3971.2	33.3
90°-120°	3759.6	31.5
90°-150°	6916.0	58.0
90°-180°	7956.0	66.7
0°-180°	11927.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2723	2723	2723	2723	2723	
5°	2679	2652	2670	2676	2685	249
15°	2266	2257	2318	2381	2422	633
25°	1732	1736	1826	1905	1990	796
35°	1224	1230	1312	1400	1500	761
45°	734	748	797	857	936	572
55°	422	439	465	482	522	382
65°	212	229	250	218	198	220
75°	106	106	97	66	45	114
85°	30	30	28	18	11	33
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°	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2729.9	2705.6	2711.8	2711.6	2704.1
5°	2679.0	2652.2	2669.5	2675.7	2685.0
7.5°	2579.6	2559.3	2590.9	2614.2	2633.2
10°	2502.2	2484.7	2524.9	2558.9	2583.4
12.5°	2412.3	2397.6	2447.5	2493.1	2525.1
15°	2265.6	2257.4	2318.2	2381.2	2422.1
17.5°	2108.6	2104.6	2174.3	2247.9	2300.2
20°	2001.5	2000.3	2076.8	2153.5	2214.2
22.5°	1893.5	1896.1	1976.4	2056.1	2125.3
25°	1731.5	1736.1	1825.9	1905.4	1989.6
27.5°	1581.6	1583.7	1676.5	1760.5	1850.2
30°	1479.3	1485.2	1576.1	1663.1	1756.6
32.5°	1377.0	1383.8	1472.9	1562.8	1658.1
35°	1223.6	1229.5	1312.0	1400.3	1499.6
37.5°	1065.4	1073.3	1146.7	1230.1	1327.8
40°	963.1	974.8	1039.6	1118.2	1214.1
42.5°	864.7	879.1	939.2	1013.8	1100.3
45°	733.7	747.7	797.0	857.4	935.6
47.5°	620.9	637.0	674.9	726.8	793.7
50°	556.8	572.0	607.0	645.5	708.6
52.5°	500.4	515.6	546.8	576.5	630.2
55°	421.8	439.3	464.8	482.5	522.2
57.5°	357.3	374.1	394.3	402.3	426.4
60°	314.3	333.0	351.3	350.4	363.3
62.5°	275.1	291.0	309.2	296.6	297.3
65°	211.5	229.0	249.7	218.2	198.4
67.5°	170.9	174.6	196.0	152.2	128.6
70°	151.8	151.8	157.7	117.8	98.0
72.5°	133.6	133.6	128.1	95.8	75.0
75°	106.3	106.3	96.8	66.4	45.4
77.5°	82.0	81.0	74.1	49.6	33.0
80°	65.7	65.7	59.7	39.1	26.3
82.5°	51.4	51.4	46.4	30.6	19.6
85°	29.9	29.9	27.5	17.8	10.8
87.5°	11.1	12.4	13.3	9.8	8.9
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	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	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	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	<i>3115.6</i>
115°	<i>507.1</i>	<i>620.7</i>	<i>1430.3</i>	<i>2763.7</i>	<i>3126.0</i>
117.5°	569.0	675.5	1365.6	2592.5	<i>2996.0</i>
120°	609.2	712.0	1333.0	2469.7	<i>2884.2</i>
122.5°	644.4	746.0	1309.1	2344.1	<i>2757.3</i>
125°	692.4	795.3	1284.3	2170.7	<i>2554.5</i>
127.5°	738.6	839.9	1268.6	2017.8	<i>2360.4</i>
130°	766.2	867.5	1262.3	1930.2	<i>2231.1</i>
132.5°	793.8	893.9	1256.0	1853.0	<i>2129.3</i>
135°	833.7	930.4	1248.2	1751.2	<i>1983.0</i>
137.5°	871.7	964.4	1244.1	1664.8	<i>1855.2</i>
140°	898.1	987.1	1240.3	1611.6	<i>1783.6</i>
142.5°	925.7	1008.6	1237.8	1562.0	<i>1707.0</i>
145°	964.0	1039.2	1232.5	1497.2	<i>1607.7</i>
147.5°	1005.5	1070.9	1227.2	1442.7	<i>1529.5</i>
150°	1033.1	1089.9	1224.6	1408.4	<i>1480.6</i>
152.5°	1058.2	1107.7	1223.4	1380.5	<i>1439.1</i>
155°	1094.3	1134.2	1221.5	1343.4	<i>1386.4</i>
157.5°	1126.0	1157.1	1221.8	1317.3	<i>1346.2</i>
160°	1146.1	1172.2	1223.1	1302.1	<i>1323.6</i>
162.5°	1163.7	1184.9	1224.3	1289.4	<i>1304.7</i>
165°	1187.0	1200.8	1226.2	1275.0	<i>1281.2</i>
167.5°	1205.8	1213.8	1227.8	1264.0	<i>1266.4</i>
170°	1218.4	1221.4	1227.8	1257.6	<i>1257.6</i>
172.5°	1225.9	1226.5	1229.0	1251.3	<i>1251.3</i>
175°	1234.1	1232.5	1227.8	1245.0	<i>1241.9</i>
177.5°	1237.5	1235.1	1228.7	1238.7	<i>1236.3</i>
180°	1232.5	1232.5	1232.5	1232.5	<i>1232.5</i>

(END OF REPORT)