

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: P519458

Luminaire Tested: **SQ4-WB-125U-050D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519458
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-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

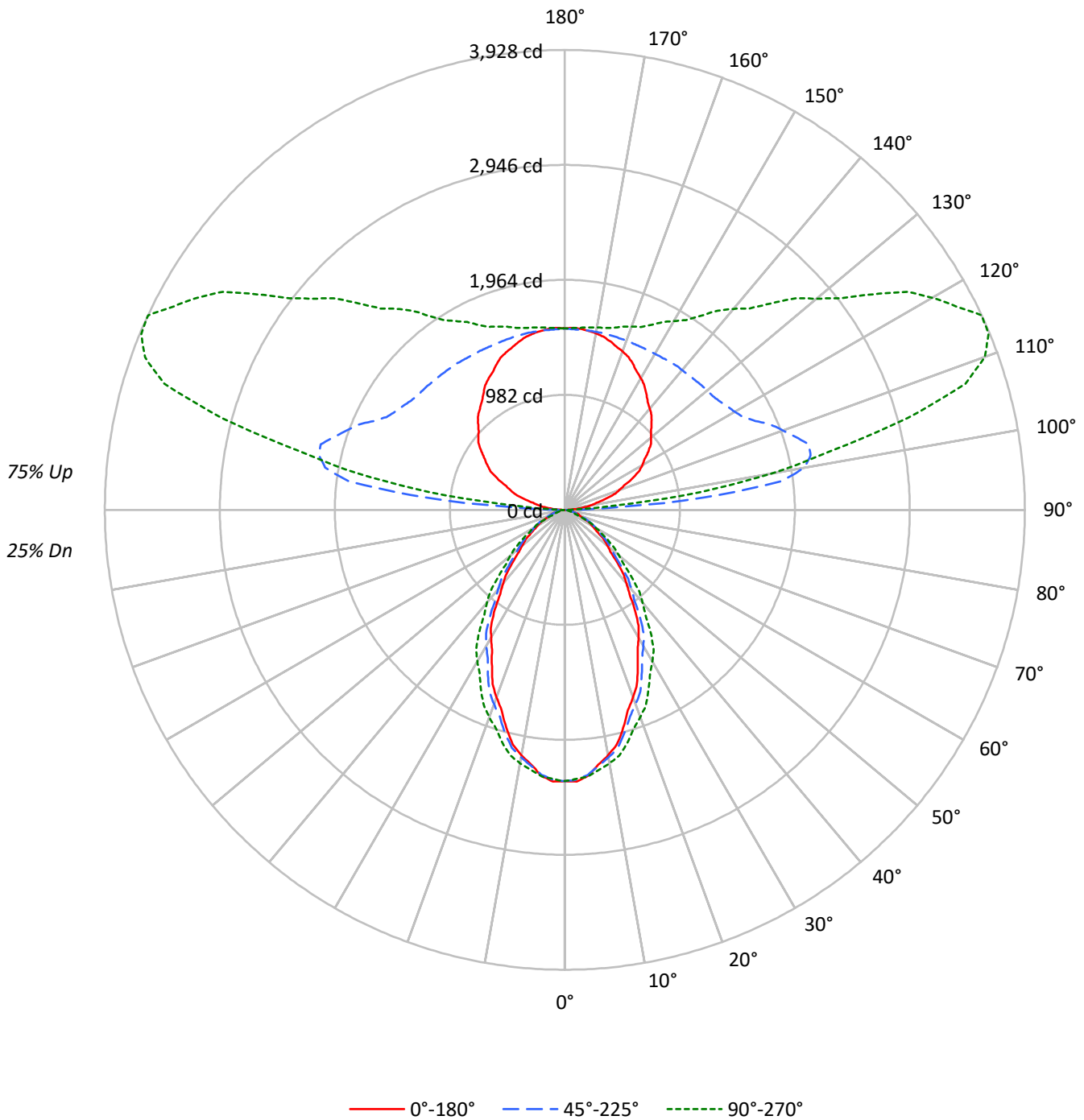
Lumens per Lamp: N/A
Luminaire Lumens: 13378.9 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	30	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	41	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10689	10689	10689
5°	10556	10519	10580
10°	9973	10064	10297
15°	9207	9420	9843
20°	8361	8675	9249
25°	7499	7908	8617
30°	6705	7144	7961
35°	5864	6287	7186
40°	4935	5327	6221
45°	4073	4425	5194
50°	3400	3707	4327
55°	2887	3181	3573
60°	2467	2758	2852
65°	1965	2320	1843
70°	1741	1810	1125
75°	1613	1469	688
80°	1485	1350	595
85°	1344	1239	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	1.6
10°-20°	552.8	4.1
20°-30°	716.1	5.4
30°-40°	701.2	5.2
40°-50°	536.7	4.0
50°-60°	357.6	2.7
60°-70°	195.2	1.5
70°-80°	81.3	0.6
80°-90°	26.7	0.2
90°-100°	724.6	5.4
100°-110°	1951.8	14.6
110°-120°	2048.3	15.3
120°-130°	1662.1	12.4
130°-140°	1303.6	9.7
140°-150°	1000.8	7.5
150°-160°	719.6	5.4
160°-170°	439.6	3.3
170°-180°	148.3	1.1
0°-30°	1481.5	11.1
0°-40°	2182.7	16.3
0°-60°	3077.1	23.0
0°-90°	3380.2	25.3
90°-120°	4724.6	35.3
90°-150°	8691.2	65.0
90°-180°	9999.0	74.7
0°-180°	13378.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2317	2317	2317	2317	2317	
5°	2280	2257	2272	2277	2285	212
15°	1928	1921	1972	2026	2061	538
25°	1473	1477	1554	1621	1693	678
35°	1041	1046	1116	1192	1276	647
45°	624	636	678	730	796	487
55°	359	374	396	410	444	325
65°	180	195	212	186	169	187
75°	90	90	82	56	39	97
85°	25	25	23	15	9	28
90°	4	12	24	26	26	9
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2317.2	2317.2	2317.2	2317.2	2317.2
2.5°	2322.9	2302.2	2307.5	2307.3	2300.9
5°	2279.6	2256.7	2271.5	2276.7	2284.7
7.5°	2195.0	2177.7	2204.6	2224.4	2240.5
10°	2129.1	2114.2	2148.4	2177.4	2198.3
12.5°	2052.7	2040.1	2082.5	2121.4	2148.6
15°	1927.8	1920.8	1972.5	2026.2	2061.0
17.5°	1794.2	1790.8	1850.1	1912.7	1957.3
20°	1703.1	1702.1	1767.1	1832.4	1884.1
22.5°	1611.2	1613.4	1681.7	1749.6	1808.4
25°	1473.3	1477.3	1553.6	1621.3	1692.9
27.5°	1345.8	1347.6	1426.5	1498.0	1574.4
30°	1258.8	1263.7	1341.1	1415.1	1494.6
32.5°	1171.7	1177.5	1253.3	1329.7	1410.9
35°	1041.2	1046.1	1116.4	1191.5	1276.0
37.5°	906.6	913.3	975.7	1046.7	1129.8
40°	819.5	829.5	884.6	951.5	1033.0
42.5°	735.7	748.1	799.2	862.7	936.2
45°	624.3	636.2	678.2	729.5	796.1
47.5°	528.3	542.0	574.3	618.5	675.3
50°	473.8	486.7	516.5	549.3	602.9
52.5°	425.8	438.7	465.3	490.5	536.2
55°	358.9	373.8	395.5	410.5	444.3
57.5°	304.0	318.3	335.5	342.3	362.8
60°	267.4	283.3	298.9	298.2	309.1
62.5°	234.1	247.6	263.1	252.4	253.0
65°	180.0	194.9	212.5	185.7	168.8
67.5°	145.4	148.6	166.7	129.5	109.4
70°	129.1	129.1	134.2	100.3	83.4
72.5°	113.7	113.7	109.0	81.5	63.9
75°	90.5	90.5	82.4	56.5	38.6
77.5°	69.8	69.0	63.0	42.2	28.1
80°	55.9	55.9	50.8	33.3	22.4
82.5°	43.7	43.7	39.5	26.0	16.7
85°	25.4	25.4	23.4	15.1	9.2
87.5°	9.7	11.3	12.9	10.0	9.2
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)