

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: P519518

Luminaire Tested: **SQ4-WB-125U-100D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519518
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-100D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

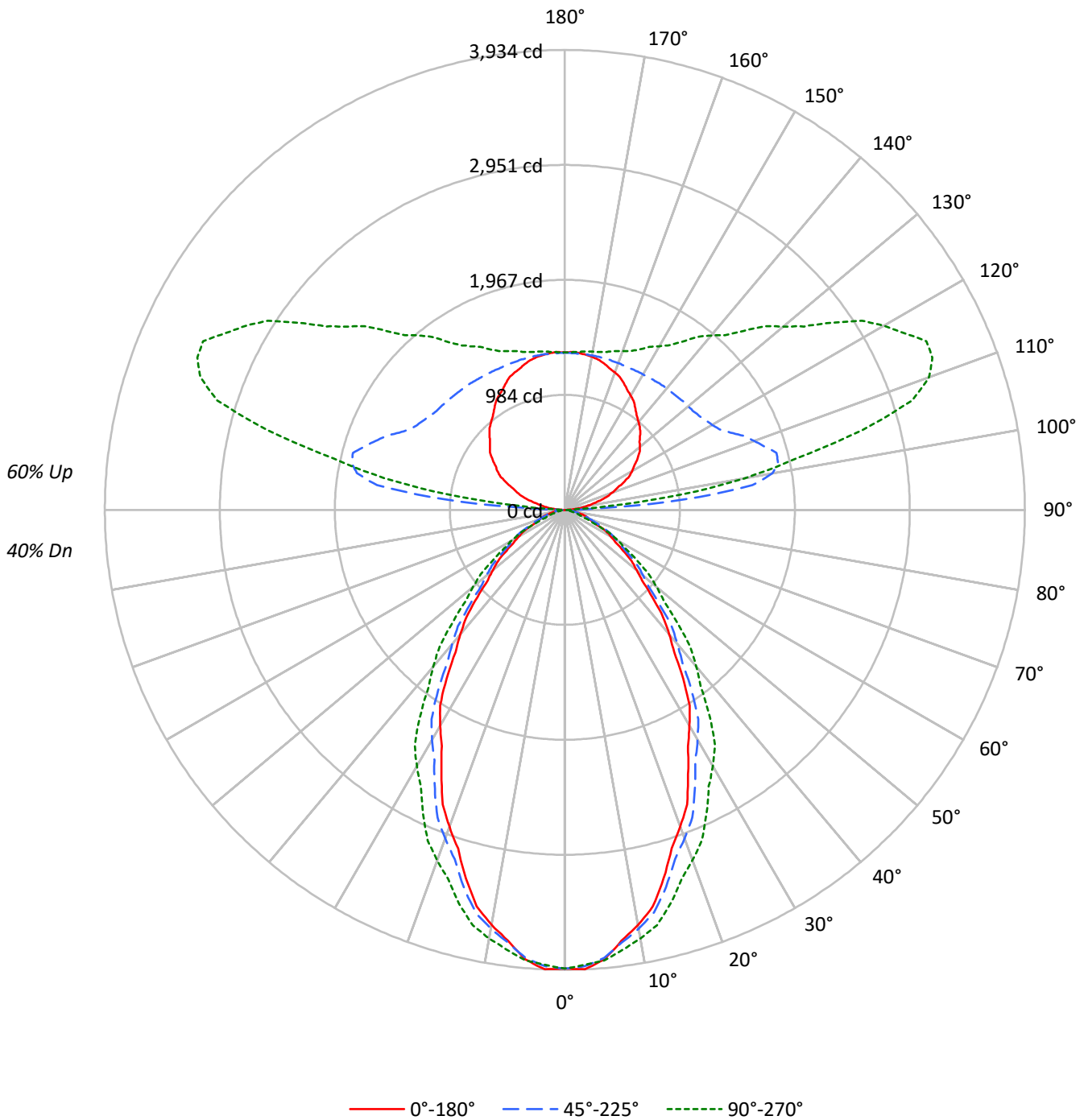
Lumens per Lamp: N/A
Luminaire Lumens: 14408.9 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17438
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12098	13483
35°	9929	10646	12169
40°	8357	9021	10535
45°	6897	7492	8796
50°	5759	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3327	3928	3120
70°	2950	3066	1904
75°	2731	2486	1166
80°	2516	2287	1007
85°	2276	2096	820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.9	2.5
10°-20°	936.2	6.5
20°-30°	1212.6	8.4
30°-40°	1187.5	8.2
40°-50°	908.9	6.3
50°-60°	605.7	4.2
60°-70°	330.5	2.3
70°-80°	137.7	1.0
80°-90°	42.1	0.3
90°-100°	629.6	4.4
100°-110°	1695.9	11.8
110°-120°	1779.8	12.4
120°-130°	1444.2	10.0
130°-140°	1132.7	7.9
140°-150°	869.6	6.0
150°-160°	625.2	4.3
160°-170°	382.0	2.7
170°-180°	128.8	0.9
0°-30°	2508.7	17.4
0°-40°	3696.2	25.7
0°-60°	5210.8	36.2
0°-90°	5721.2	39.7
90°-120°	4105.2	28.5
90°-150°	7551.7	52.4
90°-180°	8688.0	60.3
0°-180°	14408.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3924	3924	3924	3924	3924	
5°	3860	3822	3846	3855	3869	359
15°	3265	3253	3340	3431	3490	912
25°	2495	2502	2631	2746	2867	1147
35°	1763	1772	1890	2018	2161	1096
45°	1057	1077	1148	1235	1348	824
55°	608	633	670	695	752	551
65°	305	330	360	314	286	317
75°	153	153	140	96	65	164
85°	43	43	40	26	16	47
90°	3	10	21	22	22	9
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	3933.6	3898.6	3907.5	3907.2	3896.5
5°	3860.3	3821.6	3846.5	3855.4	3868.9
7.5°	3717.0	3687.7	3733.2	3766.9	3794.2
10°	3605.5	3580.2	3638.2	3687.2	3722.6
12.5°	3476.0	3454.8	3526.6	3592.4	3638.5
15°	3264.6	3252.8	3340.3	3431.2	3490.1
17.5°	3038.3	3032.6	3133.0	3239.1	3314.5
20°	2884.0	2882.3	2992.5	3103.0	3190.5
22.5°	2728.4	2732.1	2847.9	2962.7	3062.4
25°	2494.9	2501.6	2630.9	2745.6	2866.8
27.5°	2279.0	2282.0	2415.7	2536.8	2666.0
30°	2131.6	2140.0	2271.1	2396.4	2531.1
32.5°	1984.2	1994.0	2122.3	2251.8	2389.2
35°	1763.1	1771.6	1890.5	2017.8	2160.9
37.5°	1535.2	1546.6	1652.2	1772.5	1913.3
40°	1387.8	1404.6	1498.0	1611.3	1749.4
42.5°	1245.9	1266.8	1353.3	1460.9	1585.4
45°	1057.2	1077.4	1148.4	1235.4	1348.2
47.5°	894.7	917.9	972.5	1047.3	1143.6
50°	802.4	824.2	874.7	930.1	1021.0
52.5°	721.1	743.0	787.9	830.6	908.1
55°	607.8	633.1	669.8	695.2	752.4
57.5°	514.8	539.1	568.2	579.7	614.3
60°	452.8	479.8	506.2	504.9	523.4
62.5°	396.4	419.3	445.6	427.4	428.4
65°	304.8	330.0	359.9	314.4	285.8
67.5°	246.2	251.6	282.4	219.3	185.3
70°	218.7	218.7	227.3	169.8	141.2
72.5°	192.5	192.5	184.6	138.1	108.1
75°	153.2	153.2	139.5	95.7	65.4
77.5°	118.1	116.8	106.8	71.4	47.5
80°	94.7	94.7	86.1	56.4	37.9
82.5°	74.0	74.0	66.8	44.1	28.2
85°	43.0	43.0	39.6	25.6	15.5
87.5°	15.8	17.2	17.9	12.7	11.3
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)