

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: P519502

Luminaire Tested: **SQ4-WB-125U-100D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519502
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

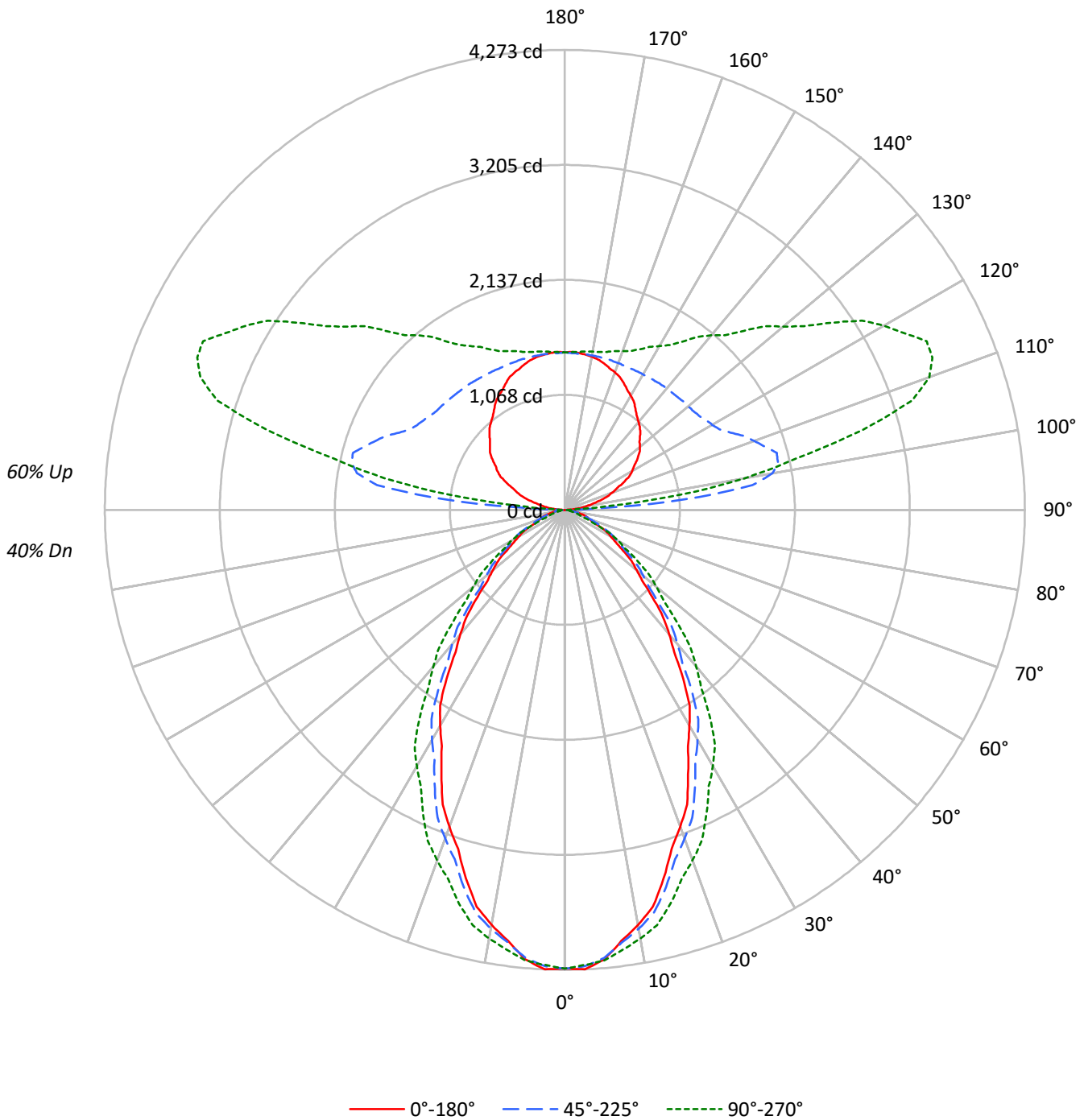
Lumens per Lamp: N/A
Luminaire Lumens: 15652.6 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	19664	19664	19664
5°	19419	19349	19462
10°	18347	18513	18943
15°	16937	17330	18107
20°	15380	15959	17015
25°	13795	14547	15852
30°	12335	13142	14646
35°	10786	11566	13220
40°	9079	9800	11444
45°	7492	8139	9554
50°	6255	6819	7960
55°	5311	5852	6574
60°	4538	5073	5246
65°	3614	4267	3389
70°	3203	3330	2069
75°	2968	2700	1267
80°	2734	2484	1092
85°	2477	2276	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	2.5
10°-20°	1017.0	6.5
20°-30°	1317.3	8.4
30°-40°	1290.0	8.2
40°-50°	987.4	6.3
50°-60°	657.9	4.2
60°-70°	359.0	2.3
70°-80°	149.6	1.0
80°-90°	45.8	0.3
90°-100°	683.9	4.4
100°-110°	1842.3	11.8
110°-120°	1933.4	12.4
120°-130°	1568.9	10.0
130°-140°	1230.4	7.9
140°-150°	944.7	6.0
150°-160°	679.2	4.3
160°-170°	415.0	2.7
170°-180°	139.9	0.9
0°-30°	2725.3	17.4
0°-40°	4015.2	25.7
0°-60°	5660.5	36.2
0°-90°	6215.0	39.7
90°-120°	4459.5	28.5
90°-150°	8203.5	52.4
90°-180°	9438.0	60.3
0°-180°	15652.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4263	4263	4263	4263	4263	
5°	4194	4151	4178	4188	4203	390
15°	3546	3534	3629	3727	3791	990
25°	2710	2718	2858	2983	3114	1246
35°	1915	1924	2054	2192	2347	1191
45°	1148	1170	1248	1342	1464	896
55°	660	688	728	755	817	599
65°	331	358	391	342	310	344
75°	166	166	152	104	71	178
85°	47	47	43	28	17	51
90°	4	11	22	24	24	10
95°	104	372	1121	573	397	109
105°	341	530	2037	3048	2861	358
115°	602	736	1697	3278	3708	592
125°	821	943	1523	2575	3030	733
135°	989	1104	1481	2077	2352	763
145°	1144	1233	1462	1776	1907	717
155°	1298	1345	1449	1594	1644	598
165°	1408	1424	1454	1512	1520	397
175°	1464	1462	1456	1477	1473	139
180°	1462	1462	1462	1462	1462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4262.7	4262.7	4262.7	4262.7	4262.7
2.5°	4273.2	4235.1	4244.8	4244.5	4232.8
5°	4193.5	4151.4	4178.5	4188.2	4202.9
7.5°	4037.9	4006.1	4055.5	4092.1	4121.7
10°	3916.7	3889.2	3952.2	4005.5	4043.9
12.5°	3776.0	3753.0	3831.0	3902.5	3952.6
15°	3546.3	3533.5	3628.6	3727.4	3791.4
17.5°	3300.6	3294.3	3403.4	3518.6	3600.6
20°	3133.0	3131.1	3250.8	3370.8	3465.9
22.5°	2963.9	2967.9	3093.7	3218.5	3326.7
25°	2710.3	2717.6	2858.0	2982.6	3114.3
27.5°	2475.7	2479.0	2624.2	2755.7	2896.2
30°	2315.6	2324.7	2467.1	2603.2	2749.5
32.5°	2155.5	2166.1	2305.5	2446.2	2595.4
35°	1915.3	1924.5	2053.7	2191.9	2347.4
37.5°	1667.7	1680.1	1794.9	1925.5	2078.4
40°	1507.6	1525.9	1627.3	1750.4	1900.4
42.5°	1353.4	1376.1	1470.2	1587.0	1722.3
45°	1148.4	1170.4	1247.6	1342.0	1464.5
47.5°	971.9	997.1	1056.4	1137.7	1242.3
50°	871.6	895.4	950.2	1010.4	1109.2
52.5°	783.3	807.1	855.9	902.3	986.5
55°	660.3	687.7	727.6	755.2	817.4
57.5°	559.3	585.6	617.2	629.7	667.4
60°	491.9	521.2	549.9	548.5	568.6
62.5°	430.6	455.4	484.1	464.3	465.4
65°	331.1	358.5	390.9	341.6	310.5
67.5°	267.5	273.3	306.8	238.2	201.3
70°	237.5	237.5	246.9	184.5	153.4
72.5°	209.1	209.1	200.5	150.0	117.5
75°	166.5	166.5	151.5	104.0	71.1
77.5°	128.3	126.8	116.0	77.6	51.6
80°	102.9	102.9	93.5	61.3	41.1
82.5°	80.4	80.4	72.6	47.9	30.7
85°	46.8	46.8	43.0	27.8	16.8
87.5°	17.2	18.7	19.4	13.8	12.3
90°	3.7	11.0	22.3	24.2	24.2
92.5°	45.4	160.5	317.3	152.8	106.2
95°	104.3	372.0	1121.1	573.3	396.7
97.5°	166.5	425.8	1758.4	1469.0	1107.7
100°	214.2	447.3	1961.0	2051.8	1702.2
102.5°	260.4	477.4	2028.1	2488.3	2201.3
105°	340.8	530.2	2037.4	3048.1	2860.6
107.5°	416.8	585.8	1950.6	3335.8	3384.2
110°	467.4	627.7	1871.6	3425.1	3601.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.1	669.7	1795.7	3405.4	3695.6
115°	601.5	736.3	1696.6	3278.2	3707.9
117.5°	674.9	801.3	1619.9	3075.2	3553.7
120°	722.6	844.6	1581.1	2929.5	3421.1
122.5°	764.3	884.9	1552.8	2780.4	3270.6
125°	821.3	943.3	1523.4	2574.8	3030.0
127.5°	876.0	996.2	1504.8	2393.4	2799.8
130°	908.8	1029.0	1497.3	2289.5	2646.4
132.5°	941.6	1060.3	1489.9	2197.9	2525.7
135°	988.9	1103.6	1480.6	2077.2	2352.1
137.5°	1034.0	1144.0	1475.7	1974.7	2200.5
140°	1065.3	1170.9	1471.2	1911.7	2115.6
142.5°	1098.0	1196.4	1468.3	1852.8	2024.7
145°	1143.5	1232.7	1461.9	1775.9	1907.0
147.5°	1192.6	1270.2	1455.6	1711.2	1814.3
150°	1225.4	1292.8	1452.6	1670.6	1756.2
152.5°	1255.2	1313.9	1451.1	1637.5	1707.0
155°	1298.0	1345.4	1448.9	1593.5	1644.4
157.5°	1335.7	1372.5	1449.3	1562.5	1596.8
160°	1359.5	1390.5	1450.8	1544.5	1570.0
162.5°	1380.4	1405.5	1452.3	1529.4	1547.6
165°	1407.9	1424.3	1454.5	1512.4	1519.7
167.5°	1430.3	1439.7	1456.3	1499.2	1502.2
170°	1445.2	1448.8	1456.3	1491.7	1491.7
172.5°	1454.1	1454.8	1457.8	1484.3	1484.3
175°	1463.8	1462.0	1456.3	1476.8	1473.1
177.5°	1467.9	1465.0	1457.5	1469.3	1466.4
180°	1461.9	1461.9	1461.9	1461.9	1461.9

(END OF REPORT)