

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: P519478

Luminaire Tested: **SQ4-WB-125U-075D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519478
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-830-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

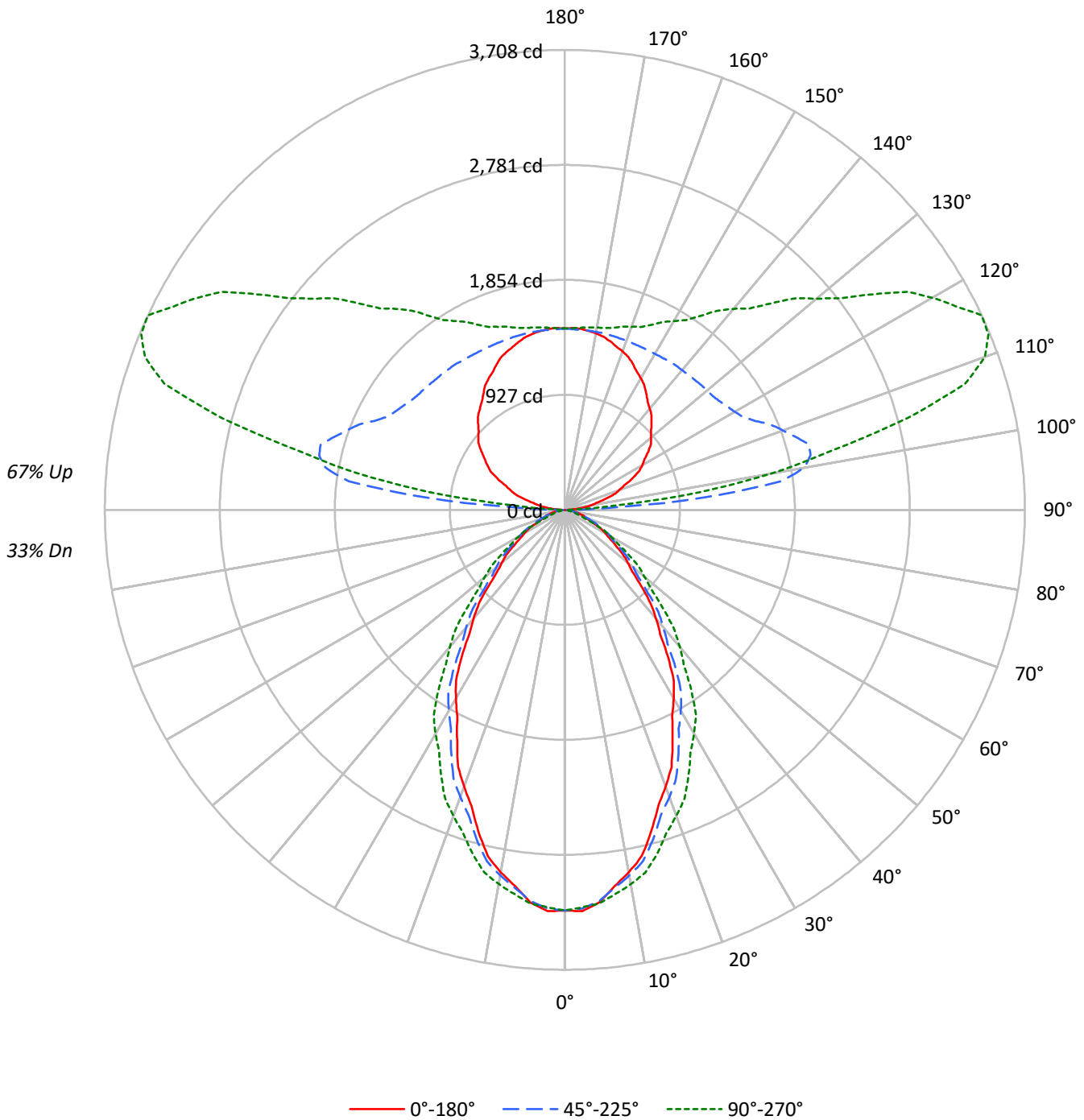
Lumens per Lamp: N/A
Luminaire Lumens: 14148.1 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	14901	14901	14901
5°	14716	14663	14748
10°	13903	14029	14354
15°	12835	13132	13721
20°	11655	12093	12893
25°	10454	11024	12012
30°	9347	9958	11099
35°	8174	8764	10017
40°	6880	7426	8672
45°	5678	6168	7240
50°	4740	5167	6032
55°	4024	4435	4982
60°	3440	3845	3976
65°	2739	3233	2568
70°	2428	2524	1567
75°	2248	2046	961
80°	2072	1884	829
85°	1874	1725	677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	2.1
10°-20°	770.7	5.4
20°-30°	998.2	7.1
30°-40°	977.5	6.9
40°-50°	748.2	5.3
50°-60°	498.6	3.5
60°-70°	272.1	1.9
70°-80°	113.4	0.8
80°-90°	35.5	0.3
90°-100°	683.9	4.8
100°-110°	1842.3	13.0
110°-120°	1933.4	13.7
120°-130°	1568.9	11.1
130°-140°	1230.4	8.7
140°-150°	944.7	6.7
150°-160°	679.2	4.8
160°-170°	415.0	2.9
170°-180°	139.9	1.0
0°-30°	2065.2	14.6
0°-40°	3042.7	21.5
0°-60°	4289.5	30.3
0°-90°	4710.4	33.3
90°-120°	4459.5	31.5
90°-150°	8203.5	58.0
90°-180°	9438.0	66.7
0°-180°	14148.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3178	3146	3166	3174	3185	296
15°	2687	2678	2750	2824	2873	750
25°	2054	2059	2166	2260	2360	944
35°	1451	1458	1556	1661	1779	902
45°	870	887	945	1017	1110	679
55°	500	521	551	572	619	454
65°	251	272	296	259	235	261
75°	126	126	115	79	54	135
85°	35	35	33	21	13	39
90°	4	11	22	24	24	9
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	

TEST NUMBER: P519478

CATALOG NUMBER: SQ4-WB-125U-075D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3230.2	3230.2	3230.2	3230.2	3230.2
2.5°	3238.2	3209.3	3216.6	3216.4	3207.5
5°	3177.8	3145.9	3166.4	3173.8	3184.9
7.5°	3059.8	3035.7	3073.2	3100.9	3123.3
10°	2968.0	2947.2	2994.9	3035.3	3064.4
12.5°	2861.4	2844.0	2903.1	2957.2	2995.2
15°	2687.4	2677.7	2749.7	2824.5	2873.0
17.5°	2501.1	2496.4	2579.1	2666.4	2728.5
20°	2374.1	2372.7	2463.4	2554.3	2626.4
22.5°	2246.0	2249.0	2344.4	2438.9	2521.0
25°	2053.8	2059.3	2165.8	2260.2	2359.9
27.5°	1876.0	1878.5	1988.6	2088.2	2194.7
30°	1754.7	1761.6	1869.5	1972.7	2083.6
32.5°	1633.4	1641.4	1747.1	1853.7	1966.8
35°	1451.4	1458.3	1556.3	1661.0	1778.8
37.5°	1263.7	1273.2	1360.1	1459.1	1575.0
40°	1142.4	1156.3	1233.1	1326.4	1440.1
42.5°	1025.6	1042.8	1114.1	1202.6	1305.1
45°	870.3	886.9	945.4	1017.0	1109.8
47.5°	736.5	755.6	800.5	862.2	941.4
50°	660.5	678.5	720.0	765.7	840.5
52.5°	593.6	611.6	648.6	683.8	747.5
55°	500.3	521.1	551.4	572.3	619.4
57.5°	423.8	443.8	467.7	477.2	505.7
60°	372.8	394.9	416.7	415.6	430.9
62.5°	326.3	345.1	366.8	351.8	352.6
65°	250.9	271.7	296.2	258.8	235.3
67.5°	202.7	207.1	232.5	180.5	152.5
70°	180.0	180.0	187.1	139.8	116.2
72.5°	158.5	158.5	151.9	113.7	89.0
75°	126.1	126.1	114.8	78.8	53.9
77.5°	97.2	96.1	87.9	58.8	39.1
80°	78.0	78.0	70.9	46.4	31.2
82.5°	60.9	60.9	55.0	36.3	23.2
85°	35.4	35.4	32.6	21.1	12.8
87.5°	13.2	14.7	15.8	11.6	10.5
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



TEST NUMBER: P519478

CATALOG NUMBER: SQ4-WB-125U-075D-830-1D-UNV-STD-W-8

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)