

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: P519454

Luminaire Tested: **SQ4-WB-125U-050D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519454
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

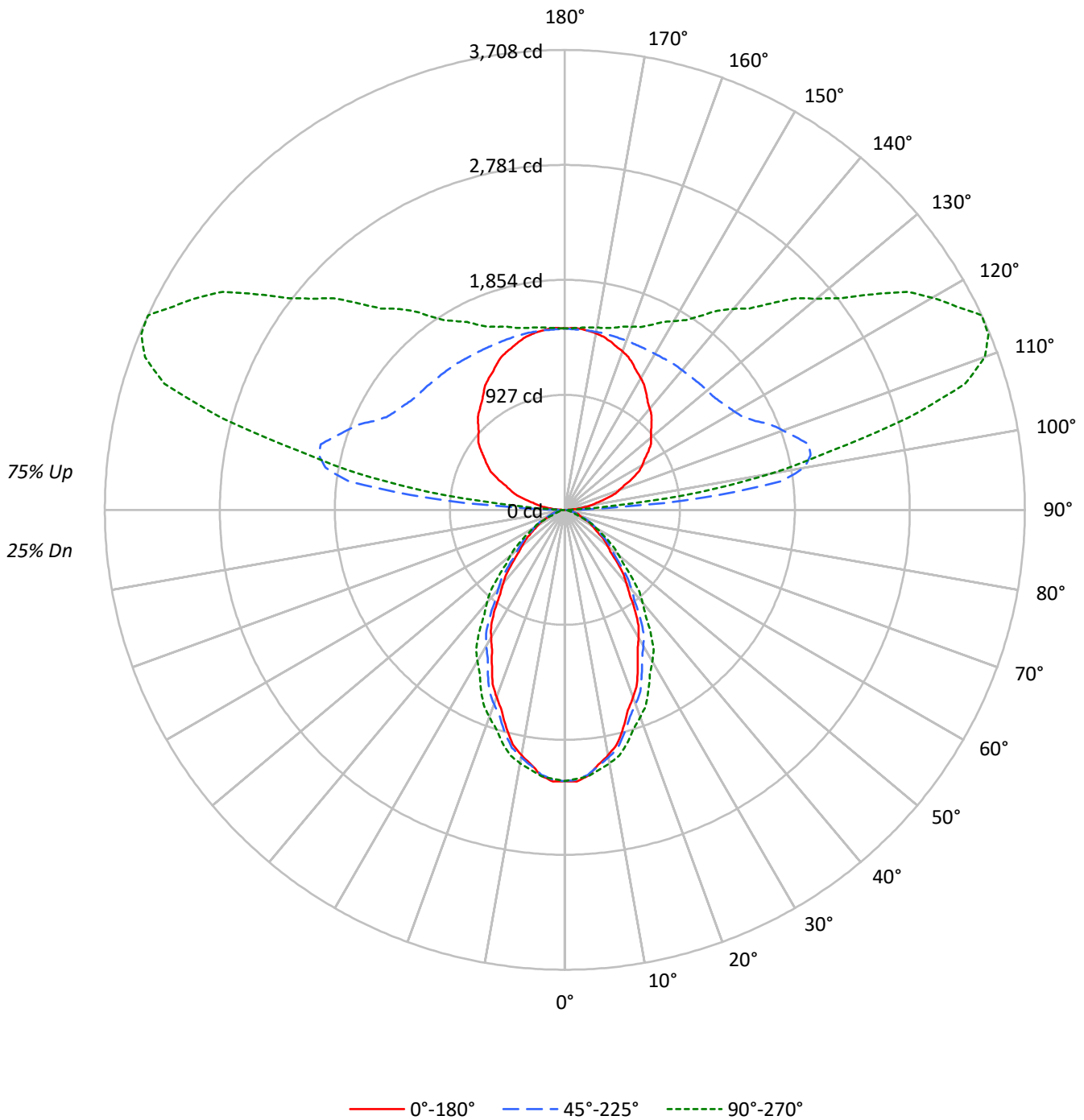
Lumens per Lamp: N/A
Luminaire Lumens: 12628.2 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	10090	10090	10090
5°	9964	9928	9986
10°	9414	9499	9719
15°	8690	8892	9291
20°	7891	8188	8730
25°	7078	7464	8133
30°	6329	6743	7515
35°	5535	5935	6783
40°	4658	5028	5872
45°	3845	4176	4903
50°	3209	3499	4084
55°	2725	3002	3373
60°	2329	2604	2692
65°	1855	2190	1739
70°	1644	1709	1061
75°	1522	1385	651
80°	1403	1275	561
85°	1270	1170	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	1.6
10°-20°	521.8	4.1
20°-30°	675.9	5.4
30°-40°	661.9	5.2
40°-50°	506.6	4.0
50°-60°	337.6	2.7
60°-70°	184.2	1.5
70°-80°	76.8	0.6
80°-90°	25.2	0.2
90°-100°	683.9	5.4
100°-110°	1842.3	14.6
110°-120°	1933.4	15.3
120°-130°	1568.9	12.4
130°-140°	1230.4	9.7
140°-150°	944.7	7.5
150°-160°	679.2	5.4
160°-170°	415.0	3.3
170°-180°	139.9	1.1
0°-30°	1398.3	11.1
0°-40°	2060.2	16.3
0°-60°	2904.4	23.0
0°-90°	3190.6	25.3
90°-120°	4459.5	35.3
90°-150°	8203.5	65.0
90°-180°	9438.0	74.7
0°-180°	12628.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2187	2187	2187	2187	2187	
5°	2152	2130	2144	2149	2156	200
15°	1820	1813	1862	1912	1945	508
25°	1391	1394	1466	1530	1598	640
35°	983	987	1054	1125	1204	611
45°	589	600	640	689	752	460
55°	339	353	373	388	419	307
65°	170	184	201	175	159	177
75°	85	85	78	53	36	91
85°	24	24	22	14	9	26
90°	4	11	22	24	24	8
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°	2187.2	2187.2	2187.2	2187.2	2187.2
2.5°	2192.6	2173.1	2178.0	2177.9	2171.8
5°	2151.7	2130.1	2144.0	2149.0	2156.5
7.5°	2071.8	2055.5	2080.9	2099.6	2114.8
10°	2009.7	1995.6	2027.9	2055.2	2074.9
12.5°	1937.5	1925.7	1965.7	2002.4	2028.1
15°	1819.6	1813.1	1861.9	1912.5	1945.4
17.5°	1693.5	1690.3	1746.3	1805.4	1847.5
20°	1607.5	1606.6	1668.0	1729.6	1778.4
22.5°	1520.8	1522.8	1587.4	1651.4	1707.0
25°	1390.6	1394.4	1466.5	1530.4	1597.9
27.5°	1270.3	1272.0	1346.5	1414.0	1486.0
30°	1188.1	1192.8	1265.9	1335.7	1410.8
32.5°	1106.0	1111.4	1182.9	1255.1	1331.7
35°	982.8	987.4	1053.8	1124.7	1204.4
37.5°	855.7	862.1	920.9	988.0	1066.4
40°	773.5	782.9	835.0	898.1	975.1
42.5°	694.5	706.1	754.3	814.3	883.7
45°	589.3	600.5	640.1	688.6	751.5
47.5°	498.7	511.6	542.0	583.8	637.4
50°	447.2	459.4	487.5	518.4	569.1
52.5°	401.9	414.1	439.2	463.0	506.2
55°	338.8	352.9	373.3	387.5	419.4
57.5°	287.0	300.5	316.7	323.1	342.4
60°	252.4	267.4	282.2	281.4	291.8
62.5°	220.9	233.7	248.4	238.2	238.8
65°	169.9	183.9	200.6	175.3	159.3
67.5°	137.2	140.2	157.4	122.2	103.3
70°	121.9	121.9	126.7	94.6	78.7
72.5°	107.3	107.3	102.9	77.0	60.3
75°	85.4	85.4	77.7	53.4	36.5
77.5°	65.8	65.1	59.5	39.8	26.5
80°	52.8	52.8	48.0	31.4	21.1
82.5°	41.3	41.3	37.2	24.6	15.7
85°	24.0	24.0	22.1	14.3	8.6
87.5°	9.2	10.6	12.1	9.4	8.7
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)