

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: P519205

Luminaire Tested: **SQ4-WB-075U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519205
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

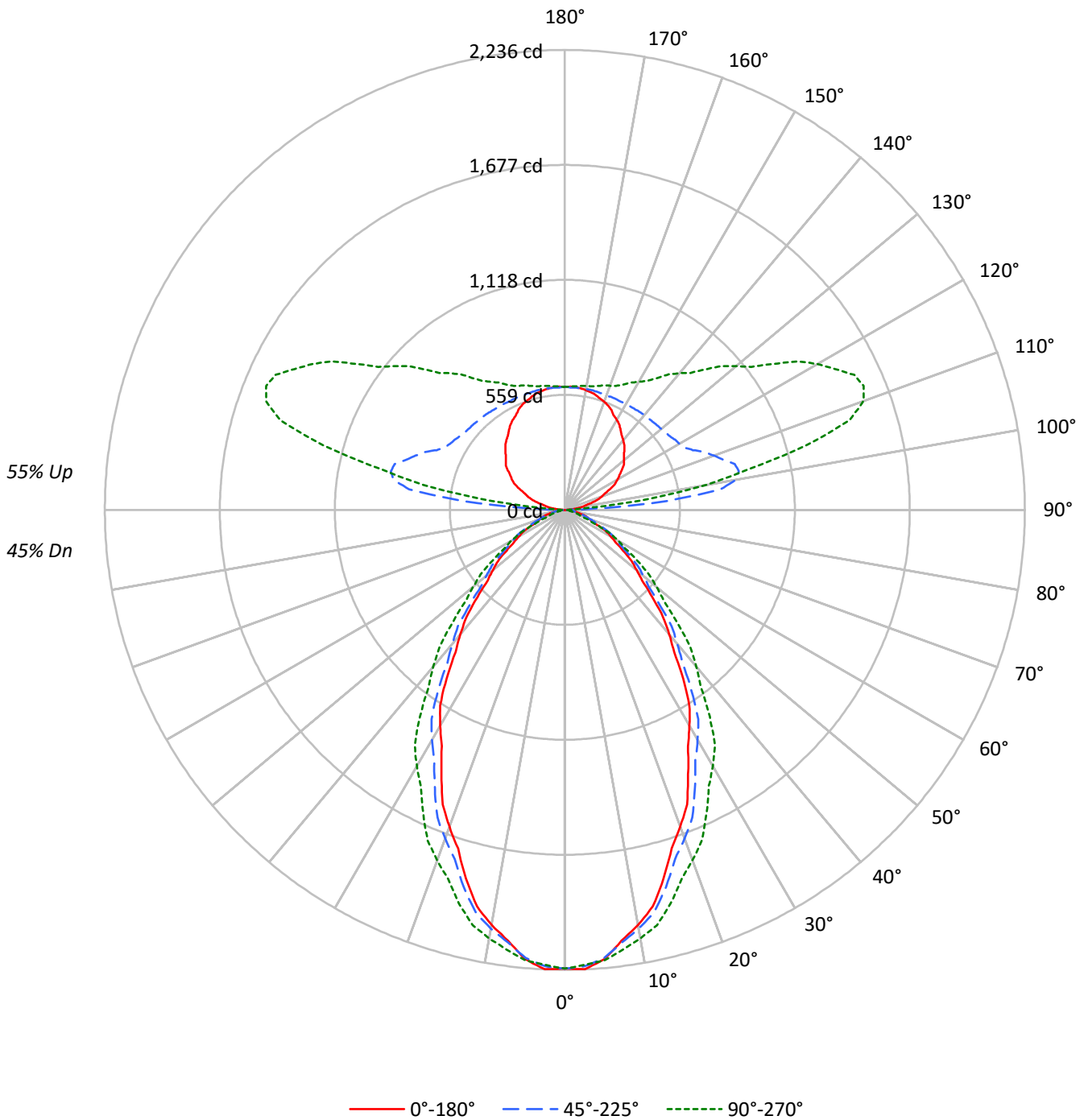
Lumens per Lamp: N/A
Luminaire Lumens: 7153.2 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 68
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12914	13214
15°	11815	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7525	8068	9221
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4585
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1442
75°	2070	1885	884
80°	1906	1732	762
85°	1729	1588	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	2.9
10°-20°	532.1	7.4
20°-30°	689.2	9.6
30°-40°	674.9	9.4
40°-50°	516.6	7.2
50°-60°	344.2	4.8
60°-70°	187.8	2.6
70°-80°	78.3	1.1
80°-90°	23.7	0.3
90°-100°	282.5	3.9
100°-110°	777.2	10.9
110°-120°	802.2	11.2
120°-130°	642.7	9.0
130°-140°	504.8	7.1
140°-150°	386.9	5.4
150°-160°	278.2	3.9
160°-170°	170.1	2.4
170°-180°	57.3	0.8
0°-30°	1425.8	19.9
0°-40°	2100.7	29.4
0°-60°	2961.5	41.4
0°-90°	3251.3	45.5
90°-120°	1861.9	26.0
90°-150°	3396.4	47.5
90°-180°	3902.0	54.5
0°-180°	7153.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2194	2172	2186	2191	2199	204
15°	1855	1849	1898	1950	1984	518
25°	1418	1422	1495	1560	1629	652
35°	1002	1007	1074	1147	1228	623
45°	601	612	653	702	766	469
55°	345	360	381	395	428	313
65°	173	188	204	179	162	180
75°	87	87	79	54	37	93
85°	24	24	22	14	9	27
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

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CATALOG NUMBER: SQ4-WB-075U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.2	2230.2	2230.2	2230.2	2230.2
2.5°	2235.6	2215.7	2220.8	2220.6	2214.5
5°	2194.0	2171.9	2186.1	2191.2	2198.8
7.5°	2112.5	2095.9	2121.7	2140.9	2156.4
10°	2049.1	2034.8	2067.7	2095.6	2115.7
12.5°	1975.5	1963.5	2004.3	2041.7	2067.9
15°	1855.4	1848.7	1898.4	1950.1	1983.6
17.5°	1726.8	1723.5	1780.6	1840.9	1883.7
20°	1639.1	1638.1	1700.8	1763.5	1813.3
22.5°	1550.6	1552.7	1618.6	1683.8	1740.5
25°	1417.9	1421.8	1495.3	1560.4	1629.3
27.5°	1295.2	1297.0	1372.9	1441.7	1515.2
30°	1211.5	1216.3	1290.7	1362.0	1438.5
32.5°	1127.7	1133.3	1206.2	1279.8	1357.9
35°	1002.1	1006.8	1074.5	1146.8	1228.1
37.5°	872.5	879.0	939.0	1007.4	1087.4
40°	788.7	798.3	851.4	915.8	994.2
42.5°	708.1	720.0	769.2	830.3	901.1
45°	600.8	612.3	652.7	702.1	766.2
47.5°	508.5	521.7	552.7	595.2	650.0
50°	456.0	468.5	497.1	528.6	580.3
52.5°	409.8	422.3	447.8	472.1	516.1
55°	345.4	359.8	380.7	395.1	427.6
57.5°	292.6	306.4	322.9	329.4	349.2
60°	257.4	272.7	287.7	287.0	297.5
62.5°	225.3	238.3	253.3	242.9	243.5
65°	173.2	187.6	204.5	178.7	162.4
67.5°	139.9	143.0	160.5	124.6	105.3
70°	124.3	124.3	129.2	96.5	80.2
72.5°	109.4	109.4	104.9	78.5	61.5
75°	87.1	87.1	79.3	54.4	37.2
77.5°	67.1	66.4	60.7	40.6	27.0
80°	53.8	53.8	48.9	32.1	21.5
82.5°	42.1	42.1	38.0	25.0	16.0
85°	24.5	24.5	22.5	14.5	8.8
87.5°	8.9	9.6	9.6	7.0	6.2
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5

TEST NUMBER: P519205

CATALOG NUMBER: SQ4-WB-075U-075D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)