

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: P519229

Luminaire Tested: **SQ4-WB-075U-100D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519229
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-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

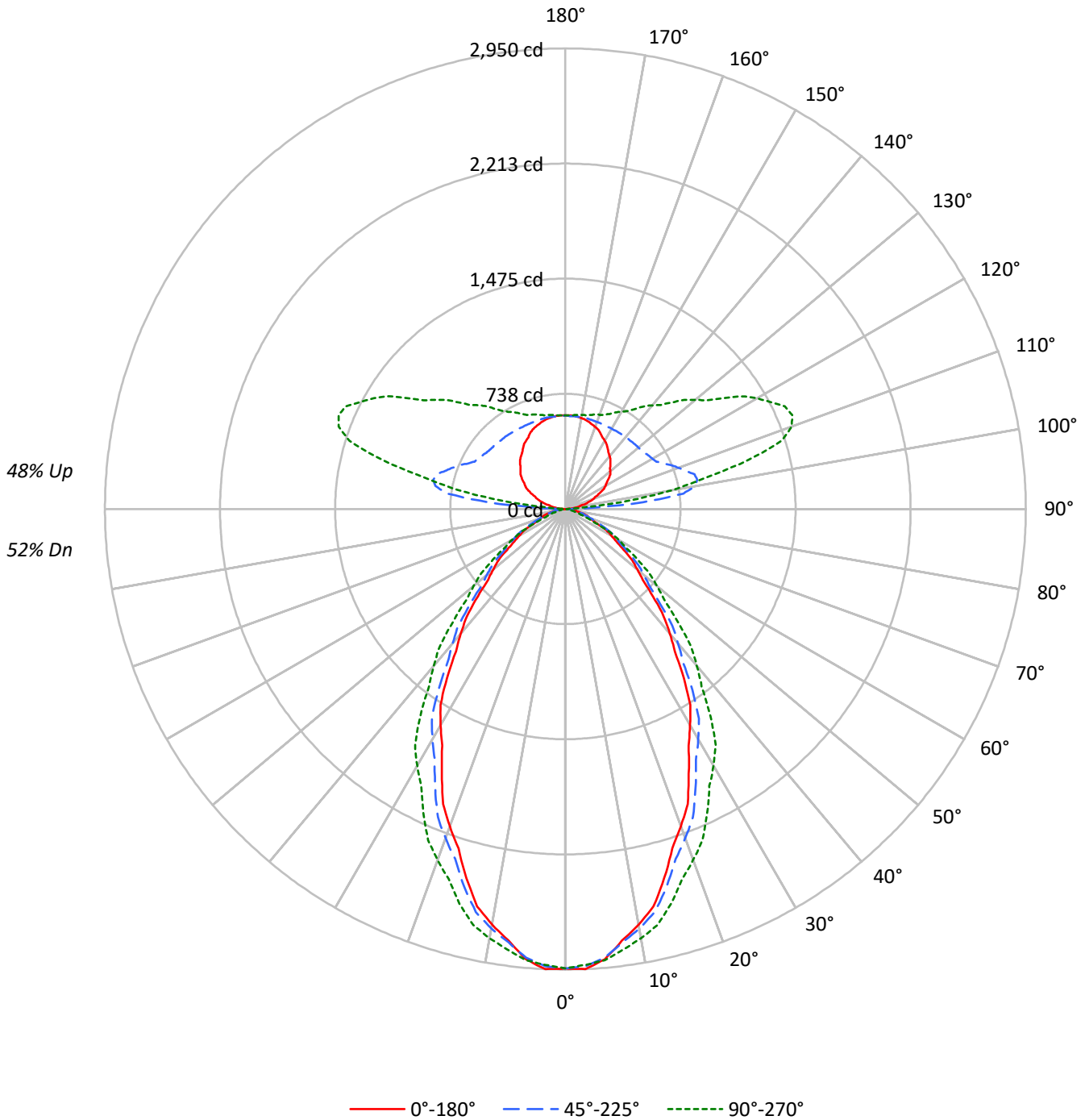
Lumens per Lamp: N/A
Luminaire Lumens: 8192.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8795
50°	5759	6277	7328
55°	4888	5386	6051
60°	4178	4671	4830
65°	3327	3928	3120
70°	2949	3066	1904
75°	2731	2486	1167
80°	2515	2288	1006
85°	2279	2096	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	3.3
10°-20°	702.1	8.6
20°-30°	909.5	11.1
30°-40°	890.6	10.9
40°-50°	681.7	8.3
50°-60°	454.2	5.5
60°-70°	247.9	3.0
70°-80°	103.3	1.3
80°-90°	30.8	0.4
90°-100°	282.5	3.4
100°-110°	777.2	9.5
110°-120°	802.2	9.8
120°-130°	642.7	7.8
130°-140°	504.8	6.2
140°-150°	386.9	4.7
150°-160°	278.2	3.4
160°-170°	170.1	2.1
170°-180°	57.3	0.7
0°-30°	1881.5	23.0
0°-40°	2772.1	33.8
0°-60°	3908.1	47.7
0°-90°	4290.0	52.4
90°-120°	1861.9	22.7
90°-150°	3396.4	41.5
90°-180°	3902.0	47.6
0°-180°	8192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2895	2866	2885	2892	2902	269
15°	2448	2440	2505	2573	2618	684
25°	1871	1876	1973	2059	2150	861
35°	1322	1329	1418	1513	1621	822
45°	793	808	861	926	1011	618
55°	456	475	502	521	564	413
65°	229	248	270	236	214	238
75°	115	115	105	72	49	123
85°	32	32	30	19	12	35
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.0	2943.0	2943.0	2943.0	2943.0
2.5°	2950.2	2924.0	2930.6	2930.4	2922.3
5°	2895.2	2866.2	2884.9	2891.6	2901.7
7.5°	2787.8	2765.8	2799.9	2825.2	2845.6
10°	2704.1	2685.2	2728.6	2765.4	2791.9
12.5°	2607.0	2591.1	2645.0	2694.3	2728.9
15°	2448.4	2439.6	2505.2	2573.4	2617.6
17.5°	2278.7	2274.4	2349.8	2429.3	2485.9
20°	2163.0	2161.8	2244.4	2327.2	2392.9
22.5°	2046.3	2049.1	2135.9	2222.1	2296.8
25°	1871.2	1876.2	1973.2	2059.2	2150.1
27.5°	1709.2	1711.5	1811.8	1902.6	1999.5
30°	1598.7	1605.0	1703.3	1797.3	1898.3
32.5°	1488.2	1495.5	1591.7	1688.9	1791.9
35°	1322.3	1328.7	1417.9	1513.3	1620.7
37.5°	1151.4	1160.0	1239.2	1329.4	1435.0
40°	1040.8	1053.5	1123.5	1208.5	1312.0
42.5°	934.4	950.1	1015.0	1095.6	1189.1
45°	792.9	808.0	861.3	926.5	1011.1
47.5°	671.0	688.4	729.4	785.5	857.7
50°	601.8	618.2	656.0	697.6	765.8
52.5°	540.8	557.2	590.9	623.0	681.1
55°	455.8	474.8	502.3	521.4	564.3
57.5°	386.1	404.3	426.1	434.7	460.8
60°	339.6	359.8	379.7	378.7	392.6
62.5°	297.3	314.4	334.2	320.5	321.3
65°	228.6	247.5	269.9	235.8	214.4
67.5°	184.7	188.7	211.8	164.5	139.0
70°	164.0	164.0	170.5	127.4	105.9
72.5°	144.4	144.4	138.4	103.6	81.1
75°	114.9	114.9	104.6	71.8	49.1
77.5°	88.6	87.6	80.1	53.6	35.6
80°	71.0	71.0	64.6	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.6	12.4	12.1	8.5	7.5
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

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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)