

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: P519097

Luminaire Tested: **SQ4-WB-050U-075D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519097
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

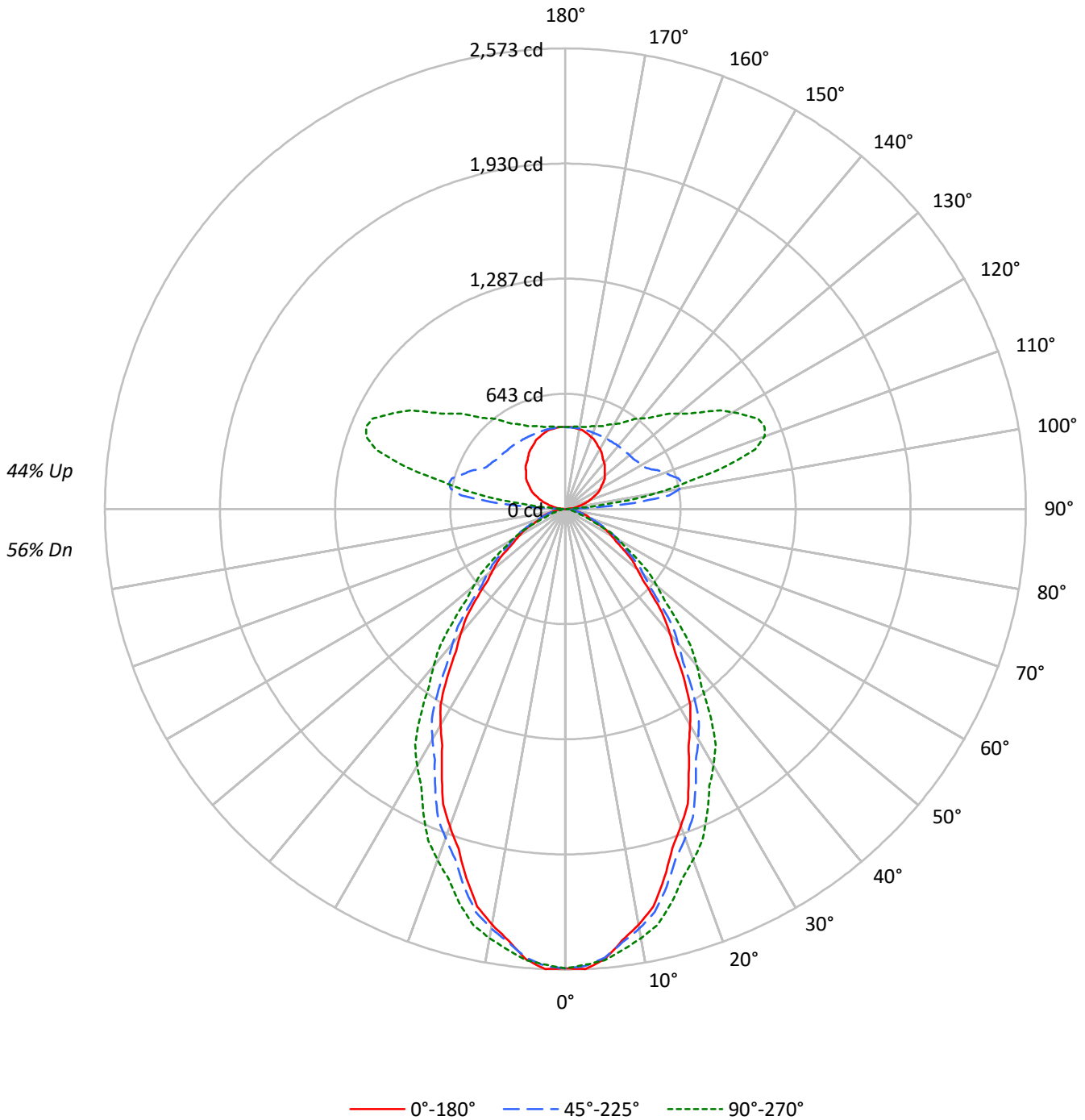
Lumens per Lamp: N/A
Luminaire Lumens: 6729.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	100	96	93	90	93	90	87	84	78	76	74	66	65	64	56	55	54	49
2	92	86	80	76	86	80	75	71	70	66	63	60	57	55	51	49	48	43
3	85	77	70	65	79	72	66	61	63	58	55	54	51	48	46	44	42	38
4	79	69	62	56	73	65	58	53	57	52	48	49	46	43	42	40	38	34
5	73	62	55	49	68	58	52	47	51	46	42	45	41	38	39	36	34	31
6	68	56	49	43	63	53	46	41	47	42	38	41	37	34	36	33	30	28
7	63	51	44	39	59	49	42	37	43	38	34	38	34	31	33	30	28	25
8	59	47	40	35	55	45	38	33	40	34	31	35	31	28	31	28	25	23
9	55	43	36	31	51	41	35	30	37	32	28	33	29	26	29	26	23	21
10	52	40	33	29	48	38	32	28	34	29	26	30	26	23	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15208
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9903	10551	11759
35°	8660	9285	10613
40°	7288	7867	9187
45°	6015	6534	7670
50°	5022	5474	6391
55°	4264	4698	5278
60°	3644	4073	4212
65°	2901	3426	2722
70°	2572	2674	1662
75°	2381	2167	1017
80°	2193	1994	878
85°	1990	1828	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.5
10°-20°	612.3	9.1
20°-30°	793.2	11.8
30°-40°	776.7	11.5
40°-50°	594.5	8.8
50°-60°	396.2	5.9
60°-70°	216.2	3.2
70°-80°	90.1	1.3
80°-90°	27.3	0.4
90°-100°	219.7	3.3
100°-110°	596.8	8.9
110°-120°	613.6	9.1
120°-130°	490.6	7.3
130°-140°	385.5	5.7
140°-150°	295.6	4.4
150°-160°	212.5	3.2
160°-170°	130.0	1.9
170°-180°	43.8	0.7
0°-30°	1640.9	24.4
0°-40°	2417.7	35.9
0°-60°	3408.4	50.6
0°-90°	3741.9	55.6
90°-120°	1430.0	21.2
90°-150°	2601.6	38.7
90°-180°	2988.0	44.4
0°-180°	6729.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2525	2500	2516	2522	2531	235
15°	2135	2128	2185	2244	2283	596
25°	1632	1636	1721	1796	1875	750
35°	1153	1159	1237	1320	1413	717
45°	692	705	751	808	882	539
55°	398	414	438	455	492	360
65°	199	216	235	206	187	207
75°	100	100	91	63	43	107
85°	28	28	26	17	10	31
90°	2	6	10	13	13	4
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2566.7	2566.7	2566.7	2566.7	2566.7
2.5°	2573.0	2550.1	2555.9	2555.7	2548.7
5°	2525.0	2499.7	2516.0	2521.8	2530.6
7.5°	2431.3	2412.1	2441.9	2463.9	2481.8
10°	2358.3	2341.8	2379.7	2411.8	2434.9
12.5°	2273.6	2259.8	2306.7	2349.8	2379.9
15°	2135.3	2127.6	2184.9	2244.3	2282.9
17.5°	1987.3	1983.6	2049.3	2118.7	2168.0
20°	1886.4	1885.3	1957.4	2029.6	2086.9
22.5°	1784.6	1787.0	1862.8	1937.9	2003.1
25°	1631.9	1636.3	1720.9	1795.9	1875.2
27.5°	1490.7	1492.7	1580.1	1659.3	1743.9
30°	1394.3	1399.8	1485.5	1567.5	1655.6
32.5°	1297.9	1304.3	1388.2	1472.9	1562.8
35°	1153.3	1158.8	1236.6	1319.8	1413.4
37.5°	1004.1	1011.6	1080.7	1159.4	1251.5
40°	907.7	918.8	979.8	1053.9	1144.2
42.5°	814.9	828.6	885.2	955.5	1037.0
45°	691.5	704.7	751.2	808.1	881.8
47.5°	585.2	600.4	636.1	685.1	748.0
50°	524.8	539.1	572.1	608.4	667.9
52.5°	471.7	486.0	515.4	543.3	594.0
55°	397.6	414.1	438.1	454.7	492.2
57.5°	336.7	352.6	371.7	379.2	401.8
60°	296.2	313.8	331.1	330.3	342.4
62.5°	259.3	274.2	291.5	279.5	280.2
65°	199.3	215.9	235.4	205.7	187.0
67.5°	161.1	164.6	184.7	143.4	121.2
70°	143.0	143.0	148.7	111.1	92.4
72.5°	125.9	125.9	120.7	90.3	70.7
75°	100.2	100.2	91.2	62.6	42.8
77.5°	77.3	76.4	69.8	46.7	31.1
80°	61.9	61.9	56.3	36.9	24.8
82.5°	48.4	48.4	43.7	28.8	18.5
85°	28.2	28.2	25.9	16.7	10.1
87.5°	10.2	11.1	11.1	8.0	7.2
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)