

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: P519001

Luminaire Tested: **SQ4-WB-025U-075D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519001
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-075D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

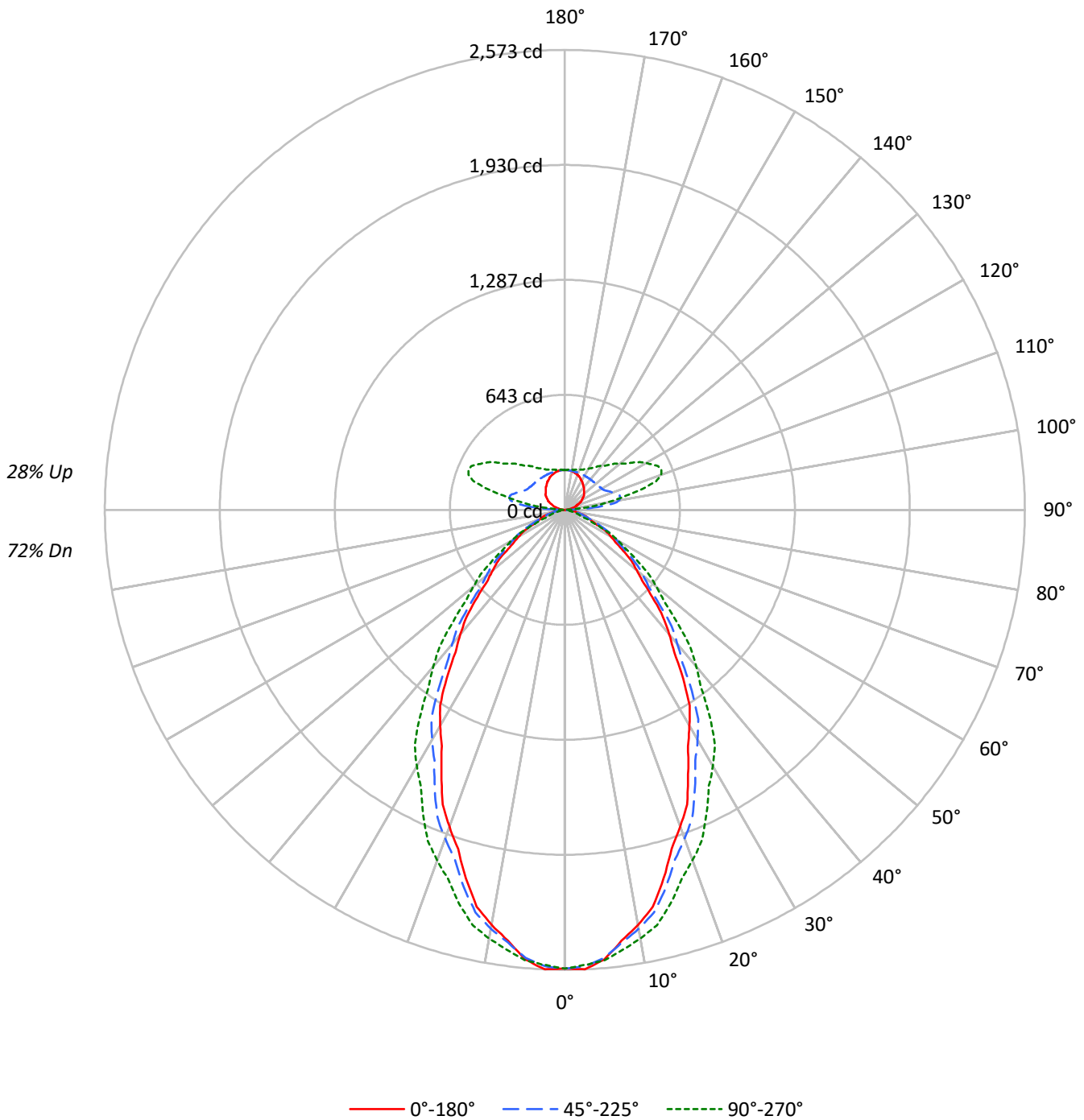
Lumens per Lamp: N/A
Luminaire Lumens: 5190.2 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

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	4.5
10°-20°	612.3	11.8
20°-30°	793.2	15.3
30°-40°	776.7	15.0
40°-50°	594.5	11.5
50°-60°	396.2	7.6
60°-70°	216.2	4.2
70°-80°	90.1	1.7
80°-90°	26.7	0.5
90°-100°	108.9	2.1
100°-110°	286.4	5.5
110°-120°	297.0	5.7
120°-130°	238.2	4.6
130°-140°	186.9	3.6
140°-150°	143.5	2.8
150°-160°	103.3	2.0
160°-170°	63.2	1.2
170°-180°	21.4	0.4
0°-30°	1640.9	31.6
0°-40°	2417.7	46.6
0°-60°	3408.4	65.7
0°-90°	3741.3	72.1
90°-120°	692.3	13.3
90°-150°	1261.0	24.3
90°-180°	1449.0	27.9
0°-180°	5190.2	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°	1	4	12	6	6	3
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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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	10.8	11.3	6.5	5.7
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)