

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: P519156

Luminaire Tested: **SQ4-WB-050U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519156
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-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

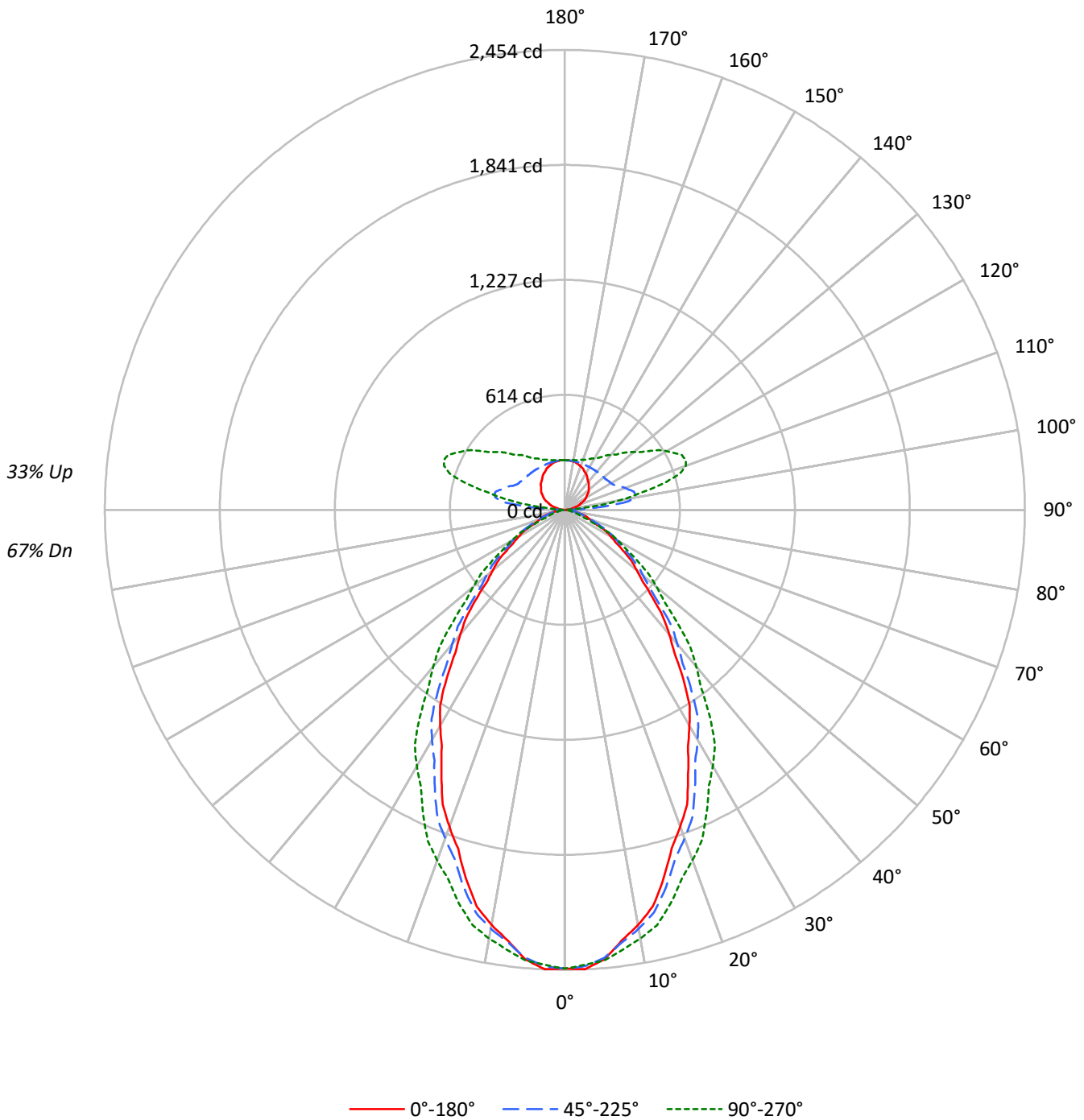
Lumens per Lamp: N/A
Luminaire Lumens: 5298.6 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	103	99	96	93	97	94	91	88	84	82	80	75	73	71	66	65	64	60				
2	95	89	83	79	90	84	79	75	75	72	69	67	65	62	60	58	56	53				
3	88	79	73	67	83	75	70	65	68	63	60	61	58	55	55	52	50	47				
4	81	72	64	59	77	68	62	57	62	57	52	56	52	48	50	47	44	41				
5	76	65	57	52	71	62	55	50	56	51	47	51	47	43	46	43	40	37				
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	34				
7	65	54	46	41	62	52	45	40	47	42	38	43	39	35	39	36	33	31				
8	61	50	42	37	58	48	41	36	44	38	34	40	35	32	37	33	30	28				
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	28	26				
10	54	42	36	31	51	41	34	30	38	32	29	35	30	27	32	28	25	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21755
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6098	6720	7550
60°	5213	5827	6025
65°	4150	4901	3892
70°	3679	3825	2377
75°	3408	3101	1454
80°	3140	2853	1254
85°	2848	2615	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	4.2
10°-20°	584.0	11.0
20°-30°	756.4	14.3
30°-40°	740.7	14.0
40°-50°	567.0	10.7
50°-60°	377.8	7.1
60°-70°	206.2	3.9
70°-80°	85.9	1.6
80°-90°	25.4	0.5
90°-100°	127.2	2.4
100°-110°	345.7	6.5
110°-120°	355.4	6.7
120°-130°	284.2	5.4
130°-140°	223.3	4.2
140°-150°	171.2	3.2
150°-160°	123.1	2.3
160°-170°	75.3	1.4
170°-180°	25.4	0.5
0°-30°	1564.9	29.5
0°-40°	2305.6	43.5
0°-60°	3250.4	61.3
0°-90°	3567.8	67.3
90°-120°	828.3	15.6
90°-150°	1507.0	28.4
90°-180°	1731.0	32.7
0°-180°	5298.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2408	2384	2399	2405	2413	224
15°	2036	2029	2084	2140	2177	569
25°	1556	1560	1641	1713	1788	716
35°	1100	1105	1179	1259	1348	684
45°	660	672	716	771	841	514
55°	379	395	418	434	469	344
65°	190	206	224	196	178	198
75°	96	96	87	60	41	102
85°	27	27	25	16	10	29
90°	1	3	6	8	8	3
95°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2453.7	2431.9	2437.4	2437.2	2430.5
5°	2408.0	2383.8	2399.4	2404.9	2413.3
7.5°	2318.6	2300.3	2328.7	2349.7	2366.7
10°	2249.0	2233.3	2269.4	2300.0	2322.1
12.5°	2168.2	2155.0	2199.8	2240.9	2269.6
15°	2036.4	2029.0	2083.6	2140.3	2177.1
17.5°	1895.2	1891.7	1954.3	2020.5	2067.5
20°	1799.0	1797.9	1866.7	1935.6	1990.2
22.5°	1701.9	1704.2	1776.4	1848.1	1910.3
25°	1556.3	1560.5	1641.1	1712.6	1788.3
27.5°	1421.6	1423.5	1506.9	1582.4	1663.0
30°	1329.6	1334.9	1416.6	1494.8	1578.8
32.5°	1237.7	1243.8	1323.8	1404.6	1490.3
35°	1099.8	1105.1	1179.3	1258.6	1347.9
37.5°	957.6	964.7	1030.6	1105.7	1193.5
40°	865.7	876.2	934.4	1005.1	1091.2
42.5°	777.2	790.2	844.2	911.3	989.0
45°	659.5	672.1	716.4	770.6	841.0
47.5°	558.1	572.6	606.6	653.3	713.4
50°	500.5	514.1	545.6	580.2	636.9
52.5°	449.8	463.5	491.5	518.1	566.4
55°	379.1	394.9	417.8	433.6	469.4
57.5°	321.1	336.3	354.4	361.6	383.2
60°	282.5	299.3	315.8	315.0	326.5
62.5°	247.2	261.5	278.0	266.6	267.2
65°	190.1	205.9	224.5	196.1	178.3
67.5°	153.6	156.9	176.1	136.8	115.6
70°	136.4	136.4	141.8	105.9	88.1
72.5°	120.1	120.1	115.1	86.1	67.4
75°	95.6	95.6	87.0	59.7	40.8
77.5°	73.7	72.8	66.6	44.6	29.6
80°	59.1	59.1	53.7	35.2	23.6
82.5°	46.2	46.2	41.7	27.5	17.6
85°	26.9	26.9	24.7	16.0	9.7
87.5°	9.6	10.1	9.8	6.7	5.8
90°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)