

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521807

Luminaire Tested: **SQ4-WB-050U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521807
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-050U-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

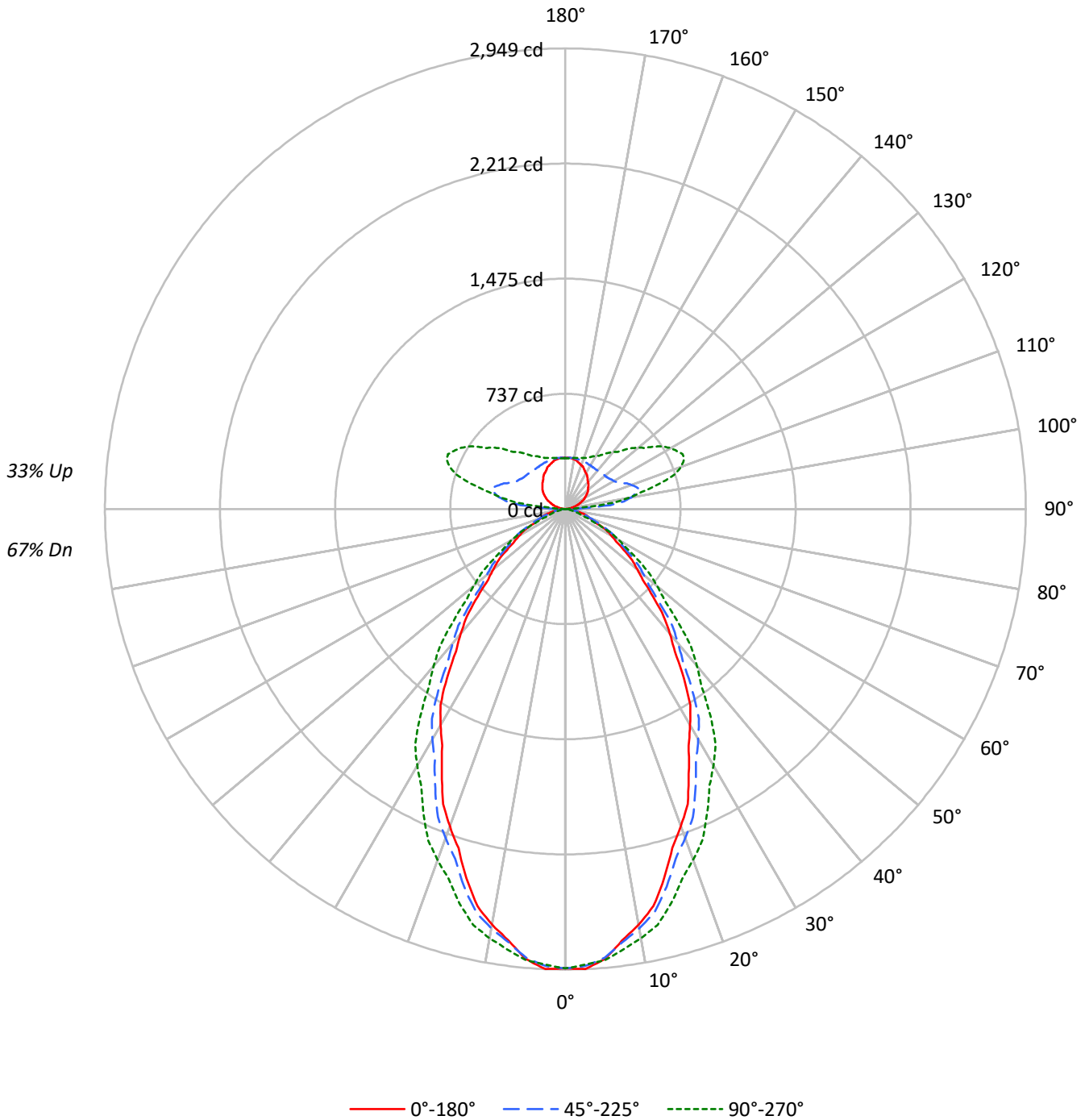
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6398.5 lumens
Efficiency: N/A
Efficacy: 89.5 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): 71.5
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	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	81	79	74	73	71	66	65	64	59				
2	95	89	83	78	90	84	79	75	75	72	68	67	64	62	60	58	56	52				
3	88	79	73	67	83	75	69	65	68	63	59	61	57	54	55	52	50	46				
4	81	71	64	59	77	68	62	57	62	56	52	56	51	48	50	47	44	41				
5	75	65	57	52	71	62	55	50	56	51	46	51	46	43	46	42	40	37				
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	33				
7	65	54	46	41	62	52	45	40	47	42	37	43	38	35	39	35	33	30				
8	61	50	42	37	58	47	41	36	44	38	34	40	35	32	36	33	30	28				
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	27	26				
10	54	42	35	31	51	41	34	30	38	32	28	35	30	27	32	28	25	24				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27138	27138	27138
5°	26799	26704	26859
10°	25319	25549	26142
15°	23374	23915	24988
20°	21225	22023	23481
25°	19038	20076	21876
30°	17022	18137	20212
35°	14885	15961	18244
40°	12529	13524	15793
45°	10340	11233	13186
50°	8632	9410	10986
55°	7329	8076	9072
60°	6263	7001	7241
65°	4986	5888	4676
70°	4421	4597	2854
75°	4096	3725	1747
80°	3772	3427	1509
85°	3419	3144	1228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	4.2
10°-20°	701.7	11.0
20°-30°	909.0	14.2
30°-40°	890.1	13.9
40°-50°	681.3	10.6
50°-60°	454.0	7.1
60°-70°	247.7	3.9
70°-80°	103.2	1.6
80°-90°	29.2	0.5
90°-100°	168.2	2.6
100°-110°	406.5	6.4
110°-120°	433.5	6.8
120°-130°	351.1	5.5
130°-140°	271.8	4.2
140°-150°	207.4	3.2
150°-160°	150.1	2.3
160°-170°	92.5	1.4
170°-180°	31.3	0.5
0°-30°	1880.5	29.4
0°-40°	2770.6	43.3
0°-60°	3905.9	61.0
0°-90°	4286.1	67.0
90°-120°	1008.1	15.8
90°-150°	1838.5	28.7
90°-180°	2112.0	33.0
0°-180°	6398.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2941	2941	2941	2941	2941	
5°	2894	2865	2883	2890	2900	269
15°	2447	2438	2504	2572	2616	683
25°	1870	1875	1972	2058	2149	860
35°	1322	1328	1417	1512	1620	822
45°	792	808	861	926	1011	618
55°	456	474	502	521	564	413
65°	228	247	270	236	214	237
75°	115	115	104	72	49	123
85°	32	32	30	19	12	35
90°	0	0	0	0	0	2
95°	17	84	288	187	131	19
105°	65	112	488	632	624	69
115°	119	152	392	744	830	117
125°	169	195	341	592	695	151
135°	208	232	327	467	537	161
145°	246	264	321	397	428	154
155°	282	294	325	351	364	130
165°	312	316	329	334	339	88
175°	330	328	330	327	326	31
180°	326	326	326	326	326	

TEST NUMBER: P521807

CATALOG NUMBER: SQ4-WB-050U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2941.4	2941.4	2941.4	2941.4	2941.4
2.5°	2948.6	2922.4	2929.0	2928.8	2920.7
5°	2893.6	2864.6	2883.3	2890.0	2900.1
7.5°	2786.2	2764.3	2798.4	2823.6	2844.1
10°	2702.6	2683.7	2727.1	2763.9	2790.4
12.5°	2605.5	2589.6	2643.5	2692.8	2727.4
15°	2447.1	2438.2	2503.8	2572.0	2616.1
17.5°	2277.5	2273.2	2348.5	2428.0	2484.5
20°	2161.8	2160.6	2243.1	2325.9	2391.6
22.5°	2045.2	2047.9	2134.7	2220.8	2295.5
25°	1870.1	1875.2	1972.1	2058.1	2148.9
27.5°	1708.3	1710.6	1810.8	1901.5	1998.4
30°	1597.8	1604.1	1702.4	1796.3	1897.2
32.5°	1487.3	1494.7	1590.8	1687.9	1790.9
35°	1321.6	1327.9	1417.1	1512.5	1619.8
37.5°	1150.7	1159.3	1238.5	1328.7	1434.2
40°	1040.3	1052.9	1122.9	1207.8	1311.3
42.5°	933.9	949.6	1014.4	1095.0	1188.4
45°	792.5	807.6	860.9	926.0	1010.6
47.5°	670.6	688.0	729.0	785.1	857.2
50°	601.4	617.8	655.6	697.2	765.4
52.5°	540.5	556.9	590.6	622.6	680.7
55°	455.6	474.5	502.1	521.1	564.0
57.5°	385.9	404.1	425.9	434.5	460.5
60°	339.4	359.6	379.4	378.5	392.4
62.5°	297.1	314.3	334.0	320.4	321.1
65°	228.4	247.4	269.7	235.7	214.2
67.5°	184.6	188.6	211.7	164.4	138.9
70°	163.9	163.9	170.4	127.3	105.8
72.5°	144.3	144.3	138.4	103.5	81.1
75°	114.9	114.9	104.5	71.8	49.0
77.5°	88.5	87.5	80.0	53.5	35.6
80°	71.0	71.0	64.5	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°	11.4	11.4	10.3	6.2	5.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.5	45.5	107.2	52.1	35.4
95°	16.6	84.1	288.1	187.4	131.3
97.5°	29.4	93.2	379.5	365.6	313.8
100°	39.4	98.8	429.8	453.7	411.1
102.5°	48.8	103.9	463.0	527.1	501.8
105°	65.0	112.2	488.5	632.1	623.9
107.5°	80.8	122.1	473.5	716.3	735.3
110°	91.9	130.4	449.1	752.6	788.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.0	138.8	427.6	761.5	822.7
115°	118.8	152.0	392.5	744.1	829.9
117.5°	134.6	165.8	371.9	704.0	804.6
120°	145.1	174.2	358.6	672.6	778.0
122.5°	156.2	183.0	350.3	640.5	744.3
125°	169.3	195.0	340.6	591.7	695.1
127.5°	182.3	206.5	333.9	550.4	641.2
130°	190.0	213.7	331.7	521.6	610.8
132.5°	197.2	221.9	328.4	500.9	576.5
135°	208.0	232.3	326.8	466.6	536.9
137.5°	218.2	242.7	322.0	443.4	496.4
140°	225.9	248.2	322.0	426.7	475.4
142.5°	233.7	256.0	319.2	412.2	453.3
145°	246.0	264.2	320.6	396.6	427.7
147.5°	257.5	275.2	319.8	378.7	404.4
150°	264.6	280.2	322.0	370.8	391.1
152.5°	272.4	287.4	321.4	362.5	380.6
155°	281.9	294.1	324.8	351.3	364.1
157.5°	293.4	303.8	324.1	347.0	354.6
160°	297.8	306.6	326.8	341.5	346.9
162.5°	305.0	312.7	325.7	339.8	343.0
165°	311.6	316.4	328.9	333.8	338.6
167.5°	319.8	322.9	328.1	333.5	333.6
170°	322.0	324.0	330.3	329.7	333.0
172.5°	325.9	327.3	328.6	330.1	328.1
175°	329.6	328.2	329.6	326.8	326.1
177.5°	328.9	328.9	327.8	326.6	323.9
180°	326.1	326.1	326.1	326.1	326.1

(END OF REPORT)