

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: P521859

Luminaire Tested: **SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021



Test Information

Test Method: LM-79-08
Report Number: P521859
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-075U-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

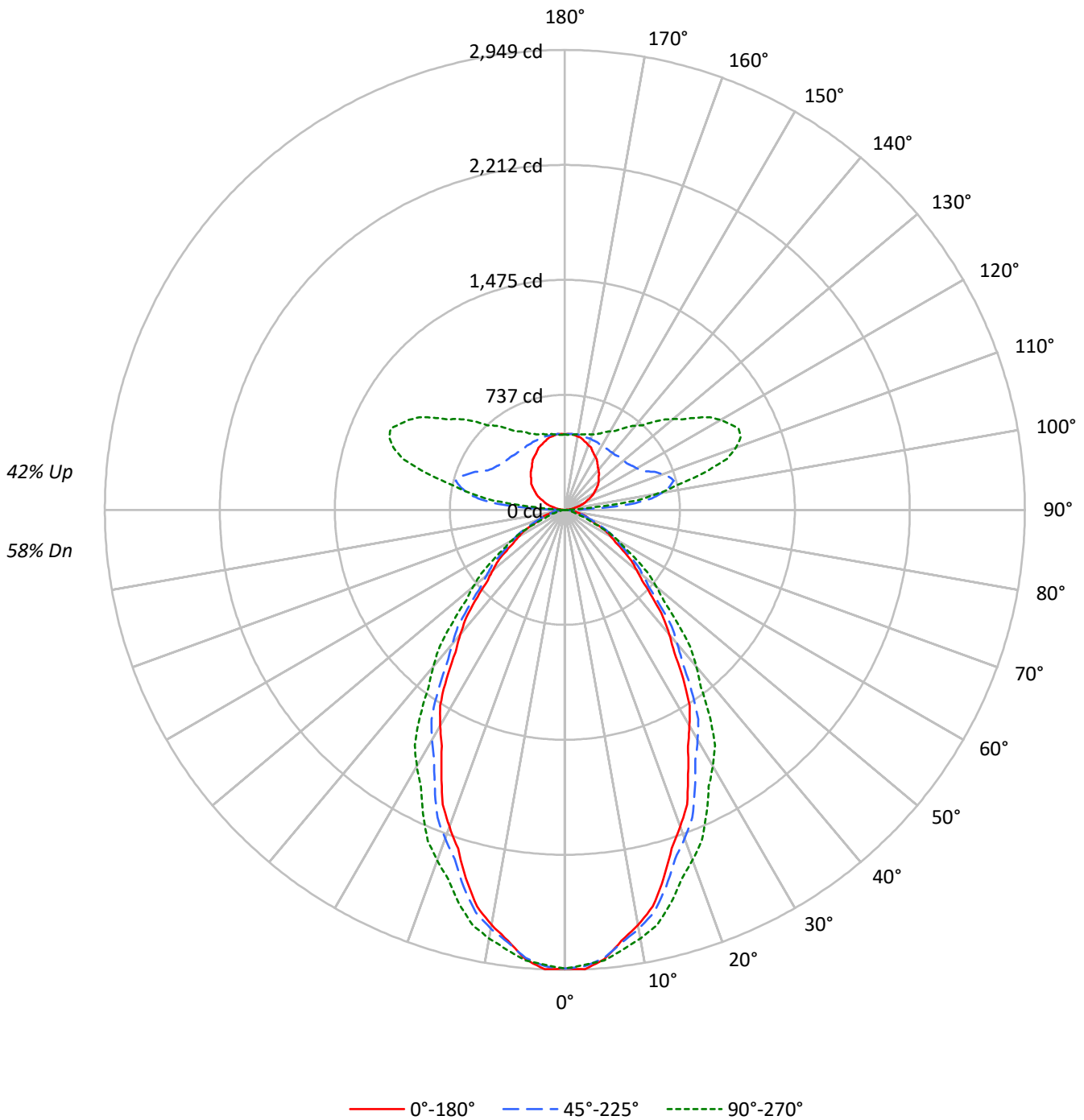
Lumens per Lamp: N/A
Luminaire Lumens: 7418.8 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	49	48	46	44	40
4	79	69	62	57	74	65	59	54	58	53	49	50	47	44	44	41	39	36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29
7	63	52	44	39	59	49	42	38	44	38	35	39	35	32	34	31	29	26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24
9	55	44	37	32	52	42	35	31	37	32	28	34	29	26	30	26	24	22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20

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	3.6
10°-20°	701.7	9.5
20°-30°	909.0	12.3
30°-40°	890.1	12.0
40°-50°	681.3	9.2
50°-60°	454.0	6.1
60°-70°	247.7	3.3
70°-80°	103.2	1.4
80°-90°	29.2	0.4
90°-100°	249.4	3.4
100°-110°	602.8	8.1
110°-120°	642.9	8.7
120°-130°	520.7	7.0
130°-140°	403.1	5.4
140°-150°	307.5	4.1
150°-160°	222.6	3.0
160°-170°	137.1	1.8
170°-180°	46.4	0.6
0°-30°	1880.5	25.3
0°-40°	2770.6	37.3
0°-60°	3905.9	52.6
0°-90°	4286.1	57.8
90°-120°	1495.1	20.2
90°-150°	2726.5	36.8
90°-180°	3133.0	42.2
0°-180°	7418.8	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	3
95°	25	125	427	278	195	28
105°	96	166	724	937	925	102
115°	176	225	582	1103	1231	174
125°	251	289	505	878	1031	224
135°	308	344	485	692	796	238
145°	365	392	476	588	634	228
155°	418	436	482	521	540	193
165°	462	469	488	495	502	130
175°	489	487	489	485	484	46
180°	484	484	484	484	484	

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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°	8.2	67.5	159.0	77.3	52.5
95°	24.6	124.8	427.3	277.9	194.7
97.5°	43.7	138.2	562.8	542.2	465.4
100°	58.4	146.6	637.4	672.8	609.7
102.5°	72.3	154.1	686.6	781.6	744.2
105°	96.3	166.5	724.5	937.3	925.3
107.5°	119.9	181.0	702.1	1062.3	1090.5
110°	136.3	193.4	666.1	1116.1	1169.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	152.7	205.8	634.1	1129.3	1220.0
115°	176.3	225.3	582.0	1103.4	1230.7
117.5°	199.6	245.9	551.5	1044.1	1193.2
120°	215.2	258.3	531.8	997.5	1153.8
122.5°	231.6	271.5	519.5	949.9	1103.8
125°	251.1	289.1	505.2	877.6	1030.9
127.5°	270.3	306.2	495.1	816.3	950.9
130°	281.8	316.9	491.9	773.6	905.9
132.5°	292.5	329.1	486.9	742.8	855.0
135°	308.4	344.5	484.7	692.0	796.2
137.5°	323.6	359.9	477.5	657.6	736.2
140°	335.1	368.1	477.5	632.9	705.0
142.5°	346.6	379.6	473.4	611.3	672.2
145°	364.8	391.9	475.5	588.2	634.3
147.5°	381.8	408.1	474.2	561.6	599.7
150°	392.5	415.5	477.5	549.9	580.0
152.5°	403.9	426.2	476.7	537.6	564.4
155°	418.1	436.1	481.6	521.0	540.0
157.5°	435.1	450.5	480.6	514.7	525.9
160°	441.7	454.7	484.7	506.4	514.4
162.5°	452.3	463.7	483.1	503.9	508.7
165°	462.2	469.2	487.8	495.1	502.1
167.5°	474.2	478.9	486.5	494.5	494.7
170°	477.5	480.5	489.8	488.9	493.9
172.5°	483.3	485.5	487.4	489.5	486.5
175°	488.8	486.8	488.8	484.7	483.7
177.5°	487.8	487.8	486.1	484.4	480.4
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)