

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: P521856

Luminaire Tested: **SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521856
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

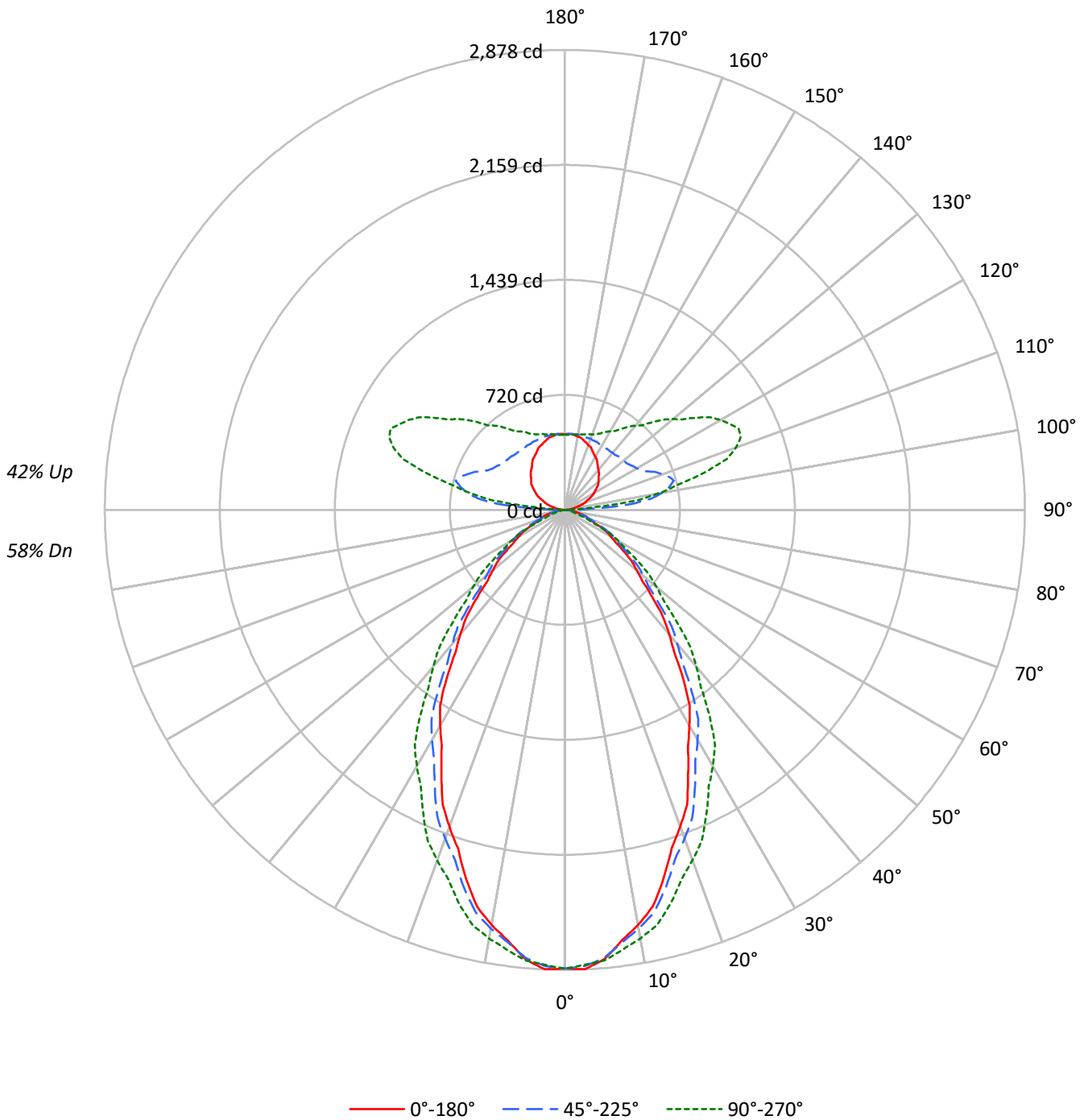
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7239.7 lumens
Efficiency: N/A
Efficacy: 91.4 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): 79.2
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°	26483	26483	26483
5°	26152	26059	26211
10°	24709	24932	25511
15°	22809	23339	24385
20°	20714	21492	22915
25°	18578	19591	21348
30°	16612	17699	19725
35°	14526	15576	17804
40°	12227	13198	15413
45°	10090	10961	12868
50°	8424	9183	10721
55°	7152	7880	8853
60°	6111	6833	7065
65°	4866	5746	4565
70°	4316	4486	2787
75°	3996	3636	1708
80°	3682	3347	1472
85°	3335	3070	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	3.6
10°-20°	684.8	9.5
20°-30°	887.0	12.3
30°-40°	868.6	12.0
40°-50°	664.9	9.2
50°-60°	443.0	6.1
60°-70°	241.8	3.3
70°-80°	100.7	1.4
80°-90°	28.5	0.4
90°-100°	243.4	3.4
100°-110°	588.2	8.1
110°-120°	627.4	8.7
120°-130°	508.1	7.0
130°-140°	393.4	5.4
140°-150°	300.1	4.1
150°-160°	217.3	3.0
160°-170°	133.8	1.8
170°-180°	45.3	0.6
0°-30°	1835.1	25.3
0°-40°	2703.7	37.3
0°-60°	3811.7	52.6
0°-90°	4182.7	57.8
90°-120°	1459.0	20.2
90°-150°	2660.7	36.8
90°-180°	3057.0	42.2
0°-180°	7239.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2824	2796	2814	2820	2830	263
15°	2388	2379	2443	2510	2553	667
25°	1825	1830	1924	2008	2097	839
35°	1290	1296	1383	1476	1581	802
45°	773	788	840	904	986	603
55°	445	463	490	508	550	403
65°	223	241	263	230	209	232
75°	112	112	102	70	48	120
85°	32	32	29	19	11	34
90°	0	0	0	0	0	3
95°	24	122	417	271	190	27
105°	94	162	707	915	903	99
115°	172	220	568	1077	1201	170
125°	245	282	493	856	1006	219
135°	301	336	473	675	777	232
145°	356	382	464	574	619	223
155°	408	426	470	508	527	188
165°	451	458	476	483	490	127
175°	477	475	477	473	472	45
180°	472	472	472	472	472	

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CATALOG NUMBER: SQ4-WB-075U-125D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2877.5	2851.8	2858.3	2858.1	2850.3
5°	2823.8	2795.5	2813.7	2820.3	2830.1
7.5°	2719.0	2697.6	2730.9	2755.5	2775.4
10°	2637.4	2618.9	2661.3	2697.2	2723.0
12.5°	2542.7	2527.2	2579.7	2627.8	2661.6
15°	2388.0	2379.4	2443.4	2509.9	2553.0
17.5°	2222.5	2218.3	2291.8	2369.4	2424.5
20°	2109.7	2108.4	2189.0	2269.8	2333.9
22.5°	1995.8	1998.5	2083.2	2167.2	2240.2
25°	1825.0	1829.9	1924.5	2008.4	2097.1
27.5°	1667.1	1669.3	1767.1	1855.6	1950.2
30°	1559.3	1565.4	1661.3	1752.9	1851.5
32.5°	1451.5	1458.6	1552.5	1647.2	1747.7
35°	1289.7	1295.9	1382.9	1476.0	1580.7
37.5°	1123.0	1131.3	1208.6	1296.6	1399.6
40°	1015.2	1027.5	1095.8	1178.7	1279.7
42.5°	911.4	926.6	990.0	1068.6	1159.8
45°	773.3	788.1	840.1	903.7	986.2
47.5°	654.4	671.4	711.4	766.1	836.6
50°	586.9	602.9	639.8	680.4	746.9
52.5°	527.5	543.5	576.3	607.6	664.3
55°	444.6	463.1	489.9	508.5	550.4
57.5°	376.6	394.3	415.6	424.0	449.4
60°	331.2	351.0	370.3	369.3	382.9
62.5°	289.9	306.7	326.0	312.6	313.4
65°	222.9	241.4	263.2	230.0	209.1
67.5°	180.1	184.0	206.6	160.4	135.5
70°	160.0	160.0	166.3	124.2	103.3
72.5°	140.8	140.8	135.0	101.0	79.1
75°	112.1	112.1	102.0	70.0	47.9
77.5°	86.4	85.4	78.1	52.2	34.8
80°	69.3	69.3	63.0	41.3	27.7
82.5°	54.2	54.2	48.9	32.2	20.7
85°	31.5	31.5	29.0	18.7	11.3
87.5°	11.1	11.1	10.1	6.0	5.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	65.9	155.2	75.4	51.2
95°	24.0	121.8	417.0	271.2	190.0
97.5°	42.6	134.9	549.2	529.1	454.2
100°	57.0	143.0	622.0	656.6	595.0
102.5°	70.6	150.4	670.0	762.8	726.2
105°	94.0	162.4	707.0	914.7	903.0
107.5°	117.0	176.6	685.2	1036.6	1064.2
110°	133.0	188.7	650.0	1089.2	1141.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.0	200.8	618.8	1102.0	1190.6
115°	172.0	219.9	568.0	1076.8	1201.0
117.5°	194.8	240.0	538.2	1018.9	1164.4
120°	210.0	252.0	519.0	973.5	1126.0
122.5°	226.0	264.9	507.0	927.0	1077.2
125°	245.0	282.2	493.0	856.4	1006.0
127.5°	263.8	298.8	483.2	796.6	928.0
130°	275.0	309.2	480.0	754.9	884.0
132.5°	285.4	321.2	475.2	724.9	834.4
135°	301.0	336.2	473.0	675.3	777.0
137.5°	315.8	351.2	466.0	641.7	718.4
140°	327.0	359.3	466.0	617.6	688.0
142.5°	338.2	370.5	462.0	596.6	656.0
145°	356.0	382.4	464.0	574.0	619.0
147.5°	372.6	398.2	462.8	548.0	585.2
150°	383.0	405.5	466.0	536.7	566.0
152.5°	394.2	415.9	465.2	524.6	550.8
155°	408.0	425.6	470.0	508.4	527.0
157.5°	424.6	439.7	469.0	502.2	513.2
160°	431.0	443.7	473.0	494.2	502.0
162.5°	441.4	452.5	471.4	491.7	496.4
165°	451.0	457.8	476.0	483.2	490.0
167.5°	462.8	467.3	474.8	482.6	482.8
170°	466.0	468.9	478.0	477.1	482.0
172.5°	471.6	473.8	475.6	477.7	474.8
175°	477.0	475.0	477.0	473.0	472.0
177.5°	476.0	476.0	474.4	472.7	468.8
180°	472.0	472.0	472.0	472.0	472.0

(END OF REPORT)