

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: P522490

Luminaire Tested: **SQW-F-025U-025D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522490
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-025D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

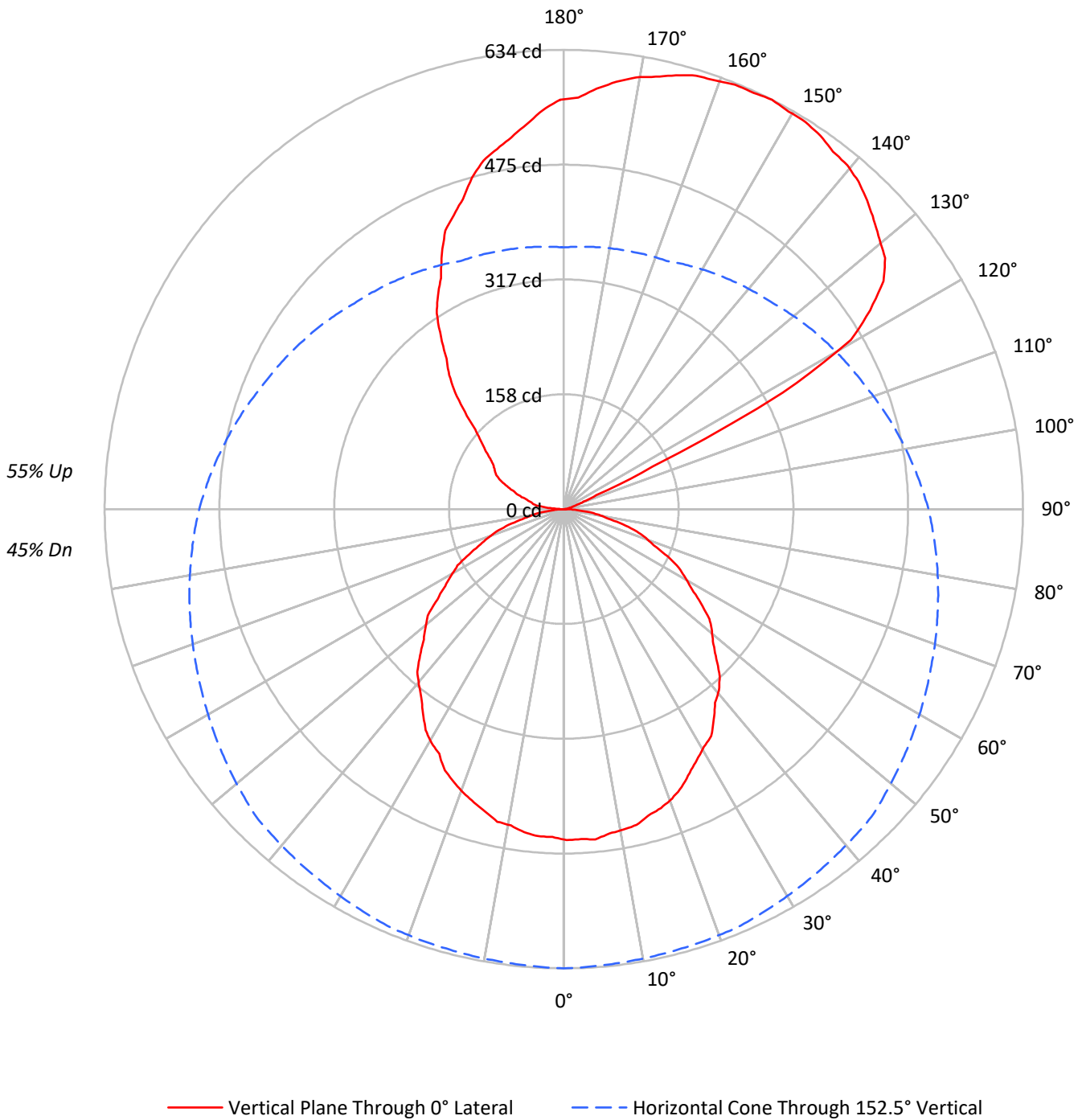
Lumens per Lamp: N/A
Luminaire Lumens: 2841.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.1
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	37
2	88	80	74	69	80	74	68	64	61	58	54	50	47	45	40	38	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	33	31	26
4	73	62	54	48	67	57	50	45	48	43	39	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	41	36	56	46	39	33	38	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	40	33	27	48	37	31	26	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7375	7375	7375
5°	7420	7452	7339
10°	7373	7389	7258
15°	7331	7383	7213
20°	7328	7345	7137
25°	7183	7274	7058
30°	7103	7180	6915
35°	7033	7072	6753
40°	6945	6945	6624
45°	6738	6878	6462
50°	6651	6777	6295
55°	6457	6629	6032
60°	6232	6429	5809
65°	6025	6216	5521
70°	5679	5962	5202
75°	5234	5421	4666
80°	4603	4788	3942
85°	3372	3742	2612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.5
10°-20°	123.4	4.3
20°-30°	185.4	6.5
30°-40°	221.3	7.8
40°-50°	227.3	8.0
50°-60°	203.9	7.2
60°-70°	154.4	5.4
70°-80°	88.2	3.1
80°-90°	23.1	0.8
90°-100°	14.3	0.5
100°-110°	63.3	2.2
110°-120°	181.9	6.4
120°-130°	277.1	9.8
130°-140°	300.8	10.6
140°-150°	287.6	10.1
150°-160°	237.0	8.3
160°-170°	155.1	5.5
170°-180°	53.7	1.9
0°-30°	352.0	12.4
0°-40°	573.2	20.2
0°-60°	1004.5	35.4
0°-90°	1270.2	44.7
90°-120°	259.5	9.1
90°-150°	1125.1	39.6
90°-180°	1571.0	55.3
0°-180°	2841.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	457	457	457	457	457	
5°	458	456	460	453	453	43
15°	439	442	442	438	432	124
25°	403	407	408	403	396	186
35°	357	359	359	351	343	223
45°	295	301	301	290	283	229
55°	229	234	236	223	214	205
65°	158	161	163	152	144	155
75°	84	87	87	80	75	89
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	2	3	10	22	22	3
105°	14	38	73	50	53	17
115°	136	359	183	86	96	188
125°	542	472	292	145	123	476
135°	597	541	388	240	191	461
145°	625	582	462	342	292	392
155°	632	606	518	429	391	292
165°	618	602	555	499	474	175
175°	582	584	572	547	534	56
180°	565	565	565	565	565	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8	456.8
2.5°	456.0	456.8	458.4	456.1	459.2	456.1	456.8	455.1	452.8
5°	457.8	455.8	455.8	455.9	459.8	454.9	452.8	451.8	452.8
7.5°	452.2	452.6	452.4	452.1	456.4	448.7	451.8	448.7	449.1
10°	449.7	447.8	450.7	448.8	450.7	447.8	447.7	444.6	442.7
12.5°	447.3	446.1	447.5	444.0	449.9	442.2	441.2	440.6	441.0
15°	438.6	441.6	441.7	438.7	441.7	434.7	437.6	433.5	431.5
17.5°	433.8	430.8	432.2	429.8	433.2	427.4	427.1	422.9	423.5
20°	426.5	423.5	426.5	422.6	427.5	418.6	421.4	416.4	415.4
22.5°	416.8	416.2	420.0	416.8	417.8	412.9	412.5	406.7	405.7
25°	403.2	404.2	407.3	402.4	408.3	400.4	403.2	394.2	396.2
27.5°	391.5	391.7	395.2	392.8	393.9	387.8	388.1	380.4	379.0
30°	381.0	382.0	387.1	383.1	385.1	378.1	380.0	369.9	370.9
32.5°	373.7	371.6	375.8	371.8	375.4	368.4	368.7	361.0	359.6
35°	356.8	356.8	358.8	358.8	358.8	351.9	350.7	343.6	342.6
37.5°	339.2	338.4	345.2	340.0	342.4	336.7	334.5	327.6	326.4
40°	329.5	325.5	331.5	329.5	329.5	324.5	322.4	316.3	314.3
42.5°	315.7	314.9	319.4	318.2	320.6	312.5	310.3	303.4	302.2
45°	295.1	296.1	301.2	299.2	301.2	296.2	290.1	285.0	283.0
47.5°	277.7	276.1	281.0	280.8	282.8	275.3	272.5	264.8	264.4
50°	264.8	264.8	268.8	267.9	269.8	263.9	258.7	252.6	250.6
52.5°	251.9	250.3	255.1	254.9	255.3	250.1	245.0	239.7	238.5
55°	229.4	230.4	234.5	234.5	235.5	230.5	223.4	217.2	214.3
57.5°	208.4	207.8	211.6	212.8	212.8	207.9	201.5	196.4	195.3
60°	193.0	194.0	197.1	199.1	199.1	194.2	187.0	181.9	179.9
62.5°	178.5	178.7	182.5	183.8	185.4	179.6	173.2	168.1	166.1
65°	157.7	156.7	160.7	162.7	162.7	157.8	151.6	146.5	144.5
67.5°	134.0	135.4	138.7	139.9	140.9	135.0	129.0	125.7	124.7
70°	120.3	119.3	123.3	125.3	126.3	120.4	115.2	111.1	110.2
72.5°	105.7	105.5	108.7	110.8	111.0	105.0	100.7	97.4	94.8
75°	83.9	84.9	86.9	86.9	86.9	83.0	79.8	76.8	74.8
77.5°	62.5	63.4	65.3	67.1	66.1	62.5	59.4	56.4	54.6
80°	49.5	50.5	51.5	52.5	51.5	49.6	46.5	43.4	42.4
82.5°	36.6	36.8	39.4	39.6	38.6	36.6	34.4	31.3	31.1
85°	18.2	19.2	21.2	21.2	20.2	19.2	17.2	15.1	14.1
87.5°	4.0	4.8	6.5	8.0	6.5	6.5	4.9	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.3	2.1	7.9	8.8	8.0	7.6
95°	2.1	2.1	3.2	10.0	10.0	16.2	22.1	21.6	21.6
97.5°	4.7	5.3	7.4	30.5	22.8	22.1	31.6	34.8	35.1
100°	6.8	7.4	11.6	49.7	33.7	28.6	33.7	41.1	42.7
102.5°	9.4	10.3	18.3	78.4	47.6	34.2	39.6	44.9	46.5
105°	14.2	15.8	38.4	131.4	72.7	45.4	50.0	52.7	53.2
107.5°	21.4	27.2	105.2	184.8	103.1	60.1	62.8	64.6	65.2
110°	29.0	41.3	182.8	217.0	125.9	71.3	69.5	74.2	73.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	48.8	85.0	268.3	243.5	148.6	84.6	75.8	83.5	84.2
115°	136.4	234.3	358.7	281.1	183.3	107.6	85.8	93.3	96.4
117.5°	342.3	407.3	406.3	316.0	216.6	134.7	97.9	101.4	104.9
120°	460.3	470.1	430.3	339.5	238.1	154.1	108.0	106.5	109.5
122.5°	504.1	496.2	448.4	360.2	260.0	174.4	121.0	111.9	114.6
125°	541.9	526.5	471.9	389.6	292.3	204.2	144.8	123.8	123.2
127.5°	562.9	546.7	494.9	415.2	322.0	235.3	171.9	140.5	135.8
130°	573.0	558.1	510.9	430.9	341.8	256.3	191.7	155.2	148.0
132.5°	585.2	569.1	522.2	447.0	360.8	276.1	211.5	172.9	164.4
135°	597.2	582.3	540.9	468.0	387.6	305.2	240.2	202.0	191.2
137.5°	608.0	594.3	558.0	484.5	411.9	333.9	270.5	233.3	220.1
140°	615.2	600.2	565.1	497.2	426.6	351.9	290.7	253.6	243.3
142.5°	617.7	608.5	572.7	507.8	443.0	369.2	310.9	272.6	263.1
145°	625.2	619.0	582.0	520.6	462.4	395.0	341.8	302.1	291.8
147.5°	630.0	620.7	590.5	534.4	481.4	418.0	369.8	331.7	322.1
150°	630.4	623.2	597.2	542.9	494.0	434.8	387.1	351.1	342.3
152.5°	633.8	624.9	600.6	550.2	503.3	449.0	404.4	370.9	361.3
155°	631.5	625.3	605.7	559.4	517.7	467.3	428.7	399.0	390.8
157.5°	631.5	623.9	606.3	566.6	531.6	487.3	451.5	424.0	417.9
160°	627.3	624.2	606.7	571.7	538.8	498.6	466.6	441.7	433.5
162.5°	625.6	620.4	607.6	575.2	545.1	507.8	479.7	456.1	449.9
165°	618.3	613.7	602.5	576.7	555.1	524.2	498.8	477.6	474.5
167.5°	610.0	606.4	599.0	579.3	561.7	536.5	515.1	498.0	493.8
170°	604.1	598.4	595.7	580.6	565.1	544.0	525.6	510.2	505.6
172.5°	594.0	593.3	591.0	577.3	568.1	550.7	535.3	521.2	518.2
175°	582.0	582.0	583.6	575.1	572.0	557.5	546.7	538.2	533.5
177.5°	568.1	568.5	571.9	571.4	571.9	563.6	560.5	552.5	551.6
180°	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1

(END OF REPORT)