

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: P522494

Luminaire Tested: **SQW-F-025U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522494
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-050D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

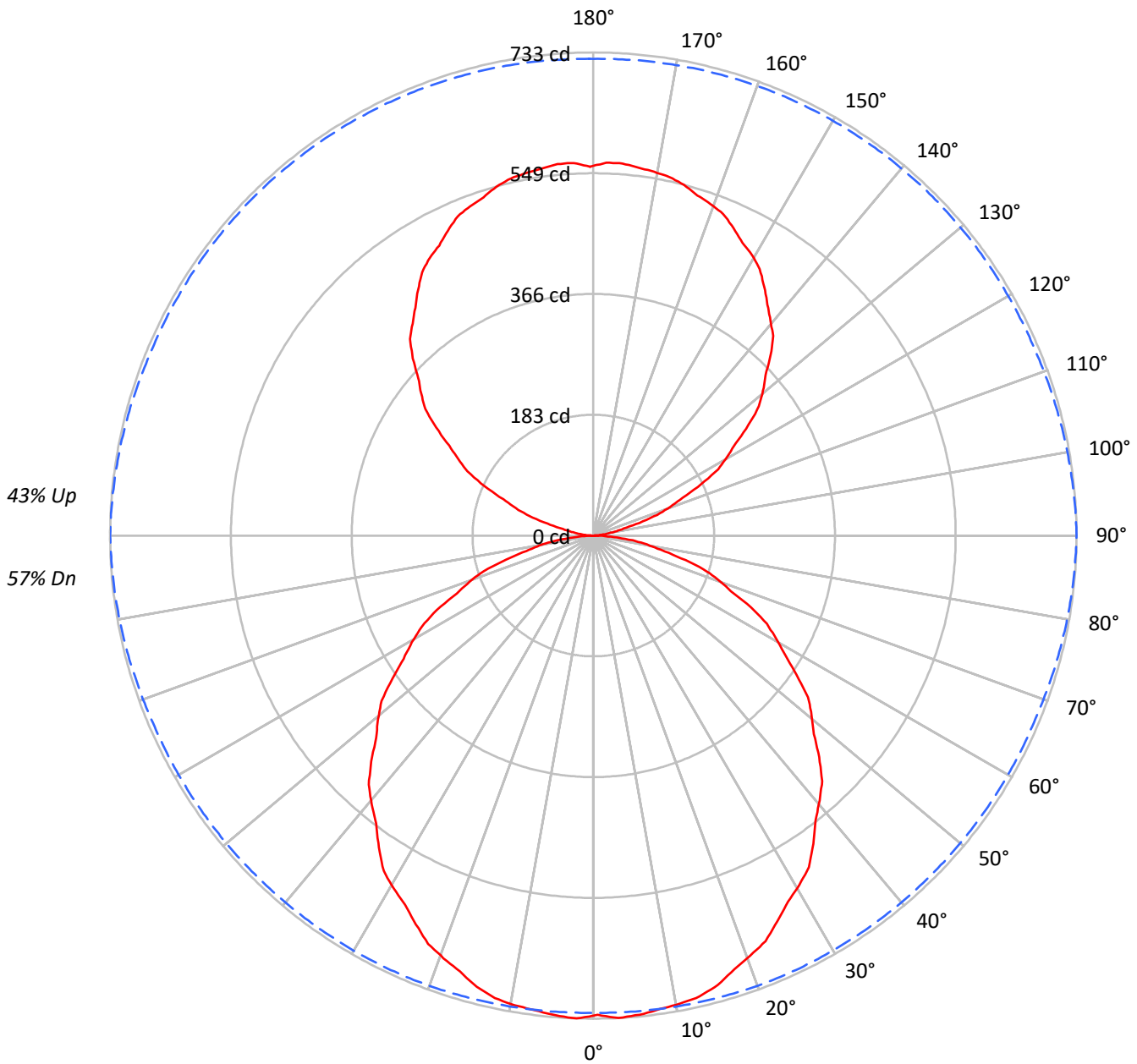
Lumens per Lamp: N/A
Luminaire Lumens: 3578.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.1
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



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



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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	101	101	101	101	87	87	87	74	74	74	62	62	62	57
1	99	95	91	87	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	76	71	84	77	71	67	67	62	59	57	54	51	48	46	44	39
3	82	72	65	59	76	68	61	56	59	53	49	50	46	43	42	40	37	33
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	28
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	25
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	31	27	24	21
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	22	19
8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11738	11738	11738
5°	11783	11831	11702
10°	11788	11837	11640
15°	11701	11818	11483
20°	11632	11684	11340
25°	11544	11544	11206
30°	11373	11466	10962
35°	11176	11314	10722
40°	11002	11129	10517
45°	10846	10960	10207
50°	10625	10776	9972
55°	10331	10528	9627
60°	10010	10301	9203
65°	9666	10048	8749
70°	9158	9441	8025
75°	8484	8546	7236
80°	7531	7624	5858
85°	5928	5743	4076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.9
10°-20°	196.5	5.5
20°-30°	295.6	8.3
30°-40°	352.8	9.9
40°-50°	362.2	10.1
50°-60°	325.6	9.1
60°-70°	246.8	6.9
70°-80°	139.2	3.9
80°-90°	36.1	1.0
90°-100°	14.1	0.4
100°-110°	62.6	1.8
110°-120°	180.0	5.0
120°-130°	274.2	7.7
130°-140°	297.6	8.3
140°-150°	284.6	8.0
150°-160°	234.5	6.6
160°-170°	153.4	4.3
170°-180°	53.1	1.5
0°-30°	560.9	15.7
0°-40°	913.7	25.5
0°-60°	1601.5	44.8
0°-90°	2023.7	56.6
90°-120°	256.8	7.2
90°-150°	1113.2	31.1
90°-180°	1554.0	43.4
0°-180°	3578.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	727	727	727	727	727	
5°	727	726	730	725	722	69
15°	700	703	707	691	687	197
25°	648	650	648	639	629	298
35°	567	576	574	559	544	355
45°	475	481	480	462	447	366
55°	367	374	374	356	342	328
65°	253	260	263	240	229	249
75°	136	138	137	124	116	144
85°	32	35	31	26	22	37
90°	0	0	0	0	0	1
95°	2	3	10	22	21	3
105°	14	38	72	50	53	16
115°	135	355	181	85	95	187
125°	536	467	289	143	122	471
135°	591	535	384	238	189	456
145°	619	576	458	338	289	388
155°	625	599	512	424	387	289
165°	612	596	549	494	470	174
175°	576	577	566	541	528	56
180°	559	559	559	559	559	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
2.5°	723.8	726.9	726.2	725.6	732.6	726.3	727.0	726.1	723.0
5°	727.0	725.0	726.0	725.1	730.0	724.1	725.0	722.0	722.0
7.5°	723.8	720.7	721.6	720.9	725.2	718.6	717.4	713.7	717.2
10°	719.0	715.1	716.0	716.1	722.0	712.2	711.0	708.0	710.0
12.5°	712.6	710.3	710.4	709.0	717.2	704.3	703.8	701.6	702.0
15°	700.0	702.9	703.0	696.2	707.0	691.4	691.0	690.9	687.0
17.5°	685.0	689.1	692.6	684.0	691.2	678.1	677.8	674.3	669.6
20°	677.0	678.0	683.0	675.1	680.0	669.2	669.0	660.0	660.0
22.5°	665.8	666.0	671.8	663.1	668.0	657.2	657.8	647.2	648.0
25°	648.0	647.0	650.0	644.1	648.0	638.2	639.0	628.0	629.0
27.5°	626.0	627.2	631.8	622.7	628.6	616.7	617.0	607.0	605.6
30°	610.0	612.0	619.0	609.1	615.0	602.3	601.0	590.9	588.0
32.5°	593.2	595.2	602.2	594.7	599.8	587.9	585.0	573.4	571.2
35°	567.0	569.0	576.0	572.0	574.0	562.3	559.0	546.9	544.0
37.5°	540.4	542.4	548.2	545.4	547.2	534.9	530.2	519.6	517.4
40°	522.0	524.0	529.0	527.0	528.0	517.2	511.0	501.9	499.0
42.5°	504.4	505.6	509.8	506.3	508.8	498.8	491.8	482.7	478.2
45°	475.0	475.0	481.0	477.1	480.0	470.2	462.0	451.9	447.0
47.5°	444.6	442.8	449.8	448.4	449.8	439.2	431.0	420.5	417.0
50°	423.0	422.0	429.0	430.0	429.0	419.2	411.0	399.0	397.0
52.5°	399.8	401.2	406.6	407.6	407.4	397.6	388.6	377.4	375.4
55°	367.0	369.0	374.0	375.0	374.0	365.2	356.0	344.0	342.0
57.5°	332.4	337.1	341.4	342.4	343.0	333.6	322.2	313.1	309.0
60°	310.0	313.9	319.0	320.0	319.0	311.2	299.0	289.9	285.0
62.5°	287.6	289.9	295.0	297.5	295.0	287.2	275.0	266.8	265.0
65°	253.0	255.0	260.0	262.0	263.0	252.2	240.0	232.9	229.0
67.5°	215.6	217.9	220.8	223.6	224.8	213.5	203.4	195.9	191.6
70°	194.0	194.0	196.0	198.0	200.0	190.2	181.0	172.0	170.0
72.5°	170.8	170.8	173.6	174.8	175.2	166.2	157.8	149.6	149.2
75°	136.0	136.0	138.0	139.0	137.0	131.1	124.0	117.0	116.0
77.5°	103.4	102.8	104.6	105.4	104.4	97.8	90.8	86.0	84.6
80°	81.0	82.0	83.0	83.0	82.0	76.1	70.0	65.9	63.0
82.5°	60.2	61.2	63.0	62.9	60.4	56.9	51.6	46.8	46.2
85°	32.0	32.0	35.0	33.9	31.0	29.0	26.0	22.0	22.0
87.5°	8.0	8.8	10.4	12.7	8.8	9.6	5.6	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	7.8	8.8	7.9	7.5
95°	2.1	2.1	3.1	9.9	9.9	16.0	21.9	21.4	21.4
97.5°	4.7	5.2	7.3	30.2	22.5	21.9	31.3	34.4	34.7
100°	6.8	7.3	11.5	49.1	33.4	28.3	33.4	40.7	42.2
102.5°	9.3	10.2	18.1	77.6	47.1	33.9	39.2	44.4	46.0
105°	14.1	15.6	38.0	130.0	71.9	44.9	49.5	52.1	52.6
107.5°	21.2	26.9	104.1	182.9	102.0	59.4	62.1	63.9	64.5
110°	28.7	40.9	180.8	214.7	124.5	70.5	68.8	73.5	72.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	48.3	84.1	265.5	240.9	147.1	83.7	75.0	82.7	83.3
115°	135.0	231.8	354.9	278.2	181.4	106.4	84.9	92.3	95.4
117.5°	338.7	403.0	402.0	312.6	214.3	133.3	96.8	100.3	103.8
120°	455.5	465.1	425.8	335.9	235.5	152.5	106.8	105.3	108.4
122.5°	498.8	491.0	443.7	356.4	257.2	172.5	119.8	110.7	113.4
125°	536.2	521.0	466.9	385.5	289.2	202.1	143.3	122.5	121.9
127.5°	557.0	541.0	489.7	410.8	318.6	232.8	170.1	139.0	134.3
130°	567.0	552.2	505.5	426.4	338.2	253.6	189.7	153.6	146.4
132.5°	579.1	563.1	516.7	442.3	357.0	273.2	209.3	171.1	162.7
135°	591.0	576.2	535.2	463.0	383.5	302.0	237.6	199.9	189.2
137.5°	601.6	588.0	552.1	479.4	407.5	330.4	267.7	230.9	217.8
140°	608.7	593.9	559.2	491.9	422.1	348.2	287.7	251.0	240.8
142.5°	611.2	602.1	566.7	502.5	438.4	365.3	307.7	269.7	260.4
145°	618.6	612.5	575.8	515.1	457.5	390.8	338.2	298.9	288.7
147.5°	623.4	614.2	584.3	528.8	476.3	413.6	365.9	328.2	318.7
150°	623.8	616.7	591.0	537.2	488.8	430.2	383.0	347.4	338.7
152.5°	627.1	618.4	594.3	544.4	498.0	444.3	400.1	367.0	357.5
155°	624.8	618.7	599.3	553.5	512.3	462.3	424.2	394.8	386.7
157.5°	624.8	617.3	599.9	560.7	526.0	482.2	446.7	419.6	413.5
160°	620.7	617.6	600.3	565.7	533.1	493.4	461.7	437.0	428.9
162.5°	619.0	613.9	601.2	569.1	539.4	502.5	474.6	451.3	445.1
165°	611.8	607.2	596.2	570.7	549.3	518.7	493.5	472.6	469.5
167.5°	603.6	600.0	592.7	573.2	555.8	530.9	509.7	492.8	488.6
170°	597.7	592.1	589.4	574.5	559.2	538.3	520.1	504.9	500.3
172.5°	587.7	587.0	584.8	571.3	562.1	544.9	529.7	515.7	512.8
175°	575.8	575.8	577.4	569.0	565.9	551.7	540.9	532.5	527.9
177.5°	562.1	562.5	565.8	565.4	565.8	557.7	554.6	546.6	545.8
180°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2

(END OF REPORT)