

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: P522489

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

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522489
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

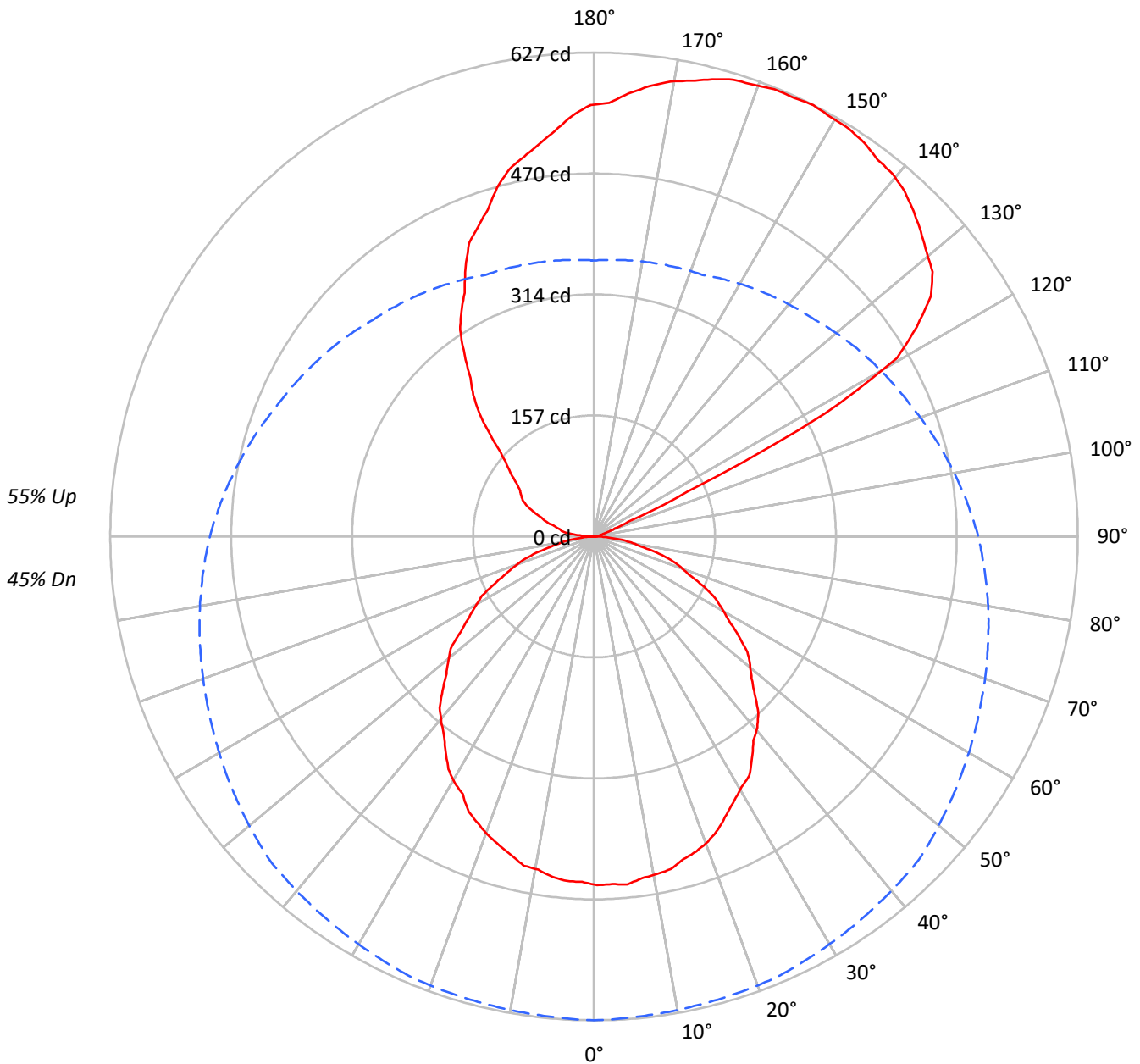
Lumens per Lamp: N/A
Luminaire Lumens: 2811.1 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° 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	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°	7298	7298	7298
5°	7342	7374	7261
10°	7296	7312	7181
15°	7254	7305	7137
20°	7251	7268	7062
25°	7108	7197	6983
30°	7029	7103	6842
35°	6958	6997	6682
40°	6871	6871	6555
45°	6667	6804	6393
50°	6581	6707	6229
55°	6390	6559	5968
60°	6168	6361	5748
65°	5960	6151	5463
70°	5618	5901	5146
75°	5178	5365	4616
80°	4556	4742	3905
85°	3335	3705	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.5
10°-20°	122.1	4.3
20°-30°	183.4	6.5
30°-40°	218.9	7.8
40°-50°	224.9	8.0
50°-60°	201.8	7.2
60°-70°	152.8	5.4
70°-80°	87.3	3.1
80°-90°	22.9	0.8
90°-100°	14.1	0.5
100°-110°	62.6	2.2
110°-120°	180.0	6.4
120°-130°	274.2	9.8
130°-140°	297.6	10.6
140°-150°	284.6	10.1
150°-160°	234.5	8.3
160°-170°	153.4	5.5
170°-180°	53.1	1.9
0°-30°	348.2	12.4
0°-40°	567.2	20.2
0°-60°	993.9	35.4
0°-90°	1256.8	44.7
90°-120°	256.8	9.1
90°-150°	1113.2	39.6
90°-180°	1554.0	55.3
0°-180°	2811.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	452	452	452	452	452	
5°	453	451	455	448	448	43
15°	434	437	437	433	427	123
25°	399	403	404	399	392	184
35°	353	355	355	347	339	221
45°	292	298	298	287	280	226
55°	227	232	233	221	212	203
65°	156	159	161	150	143	153
75°	83	86	86	79	74	88
85°	18	21	20	17	14	22
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°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	451.2	452.0	453.6	451.3	454.4	451.3	452.0	450.3	448.0
5°	453.0	451.0	451.0	451.1	455.0	450.1	448.0	447.0	448.0
7.5°	447.4	447.8	447.6	447.3	451.6	444.0	447.0	444.0	444.4
10°	445.0	443.0	446.0	444.0	446.0	443.1	443.0	440.0	438.0
12.5°	442.6	441.4	442.8	439.3	445.2	437.6	436.6	436.0	436.4
15°	434.0	436.9	437.0	434.1	437.0	430.2	433.0	429.0	427.0
17.5°	429.2	426.3	427.6	425.3	428.6	422.9	422.6	418.4	419.0
20°	422.0	419.1	422.0	418.1	423.0	414.2	417.0	412.0	411.0
22.5°	412.4	411.8	415.6	412.4	413.4	408.5	408.2	402.4	401.4
25°	399.0	400.0	403.0	398.1	404.0	396.2	399.0	390.0	392.0
27.5°	387.4	387.6	391.0	388.6	389.8	383.7	384.0	376.4	375.0
30°	377.0	378.0	383.0	379.0	381.0	374.2	376.0	366.0	367.0
32.5°	369.8	367.6	371.8	367.9	371.4	364.6	364.8	357.2	355.8
35°	353.0	353.0	355.0	355.0	355.0	348.2	347.0	340.0	339.0
37.5°	335.6	334.8	341.6	336.5	338.8	333.1	331.0	324.2	323.0
40°	326.0	322.1	328.0	326.0	326.0	321.1	319.0	313.0	311.0
42.5°	312.4	311.6	316.0	314.9	317.2	309.2	307.0	300.2	299.0
45°	292.0	293.0	298.0	296.0	298.0	293.1	287.0	282.0	280.0
47.5°	274.8	273.2	278.0	277.8	279.8	272.4	269.6	262.0	261.6
50°	262.0	262.0	266.0	265.0	267.0	261.1	256.0	250.0	248.0
52.5°	249.2	247.6	252.4	252.2	252.6	247.5	242.4	237.2	236.0
55°	227.0	228.0	232.0	232.0	233.0	228.1	221.0	214.9	212.0
57.5°	206.2	205.6	209.4	210.6	210.6	205.7	199.4	194.4	193.2
60°	191.0	192.0	195.0	197.0	197.0	192.1	185.0	180.0	178.0
62.5°	176.6	176.8	180.6	181.8	183.4	177.7	171.4	166.4	164.4
65°	156.0	155.0	159.0	161.0	161.0	156.1	150.0	145.0	143.0
67.5°	132.6	134.0	137.2	138.4	139.4	133.5	127.6	124.4	123.4
70°	119.0	118.0	122.0	124.0	125.0	119.1	114.0	110.0	109.0
72.5°	104.6	104.4	107.6	109.6	109.8	103.9	99.6	96.3	93.8
75°	83.0	84.0	86.0	86.0	86.0	82.1	79.0	76.0	74.0
77.5°	61.8	62.8	64.6	66.4	65.4	61.9	58.8	55.8	54.0
80°	49.0	50.0	51.0	52.0	51.0	49.0	46.0	43.0	42.0
82.5°	36.2	36.4	39.0	39.2	38.2	36.2	34.0	31.0	30.8
85°	18.0	19.0	21.0	21.0	20.0	19.0	17.0	15.0	14.0
87.5°	4.0	4.8	6.4	8.0	6.4	6.4	4.8	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)