

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: P522491

Luminaire Tested: **SQW-F-025U-025D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522491
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.1 lumens
Efficiency: N/A
Efficacy: 101.8 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

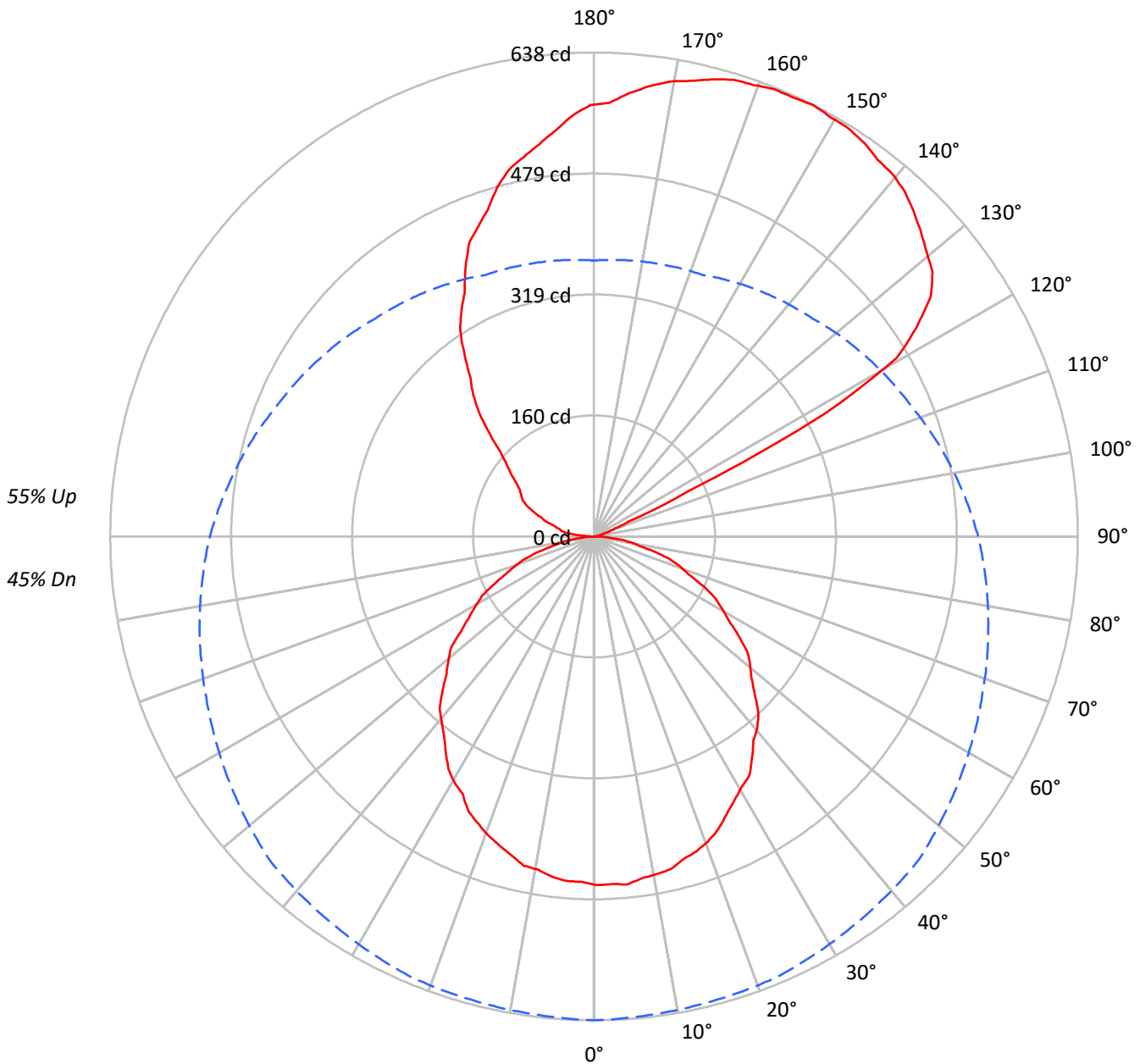
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7427	7427	7427
5°	7473	7506	7391
10°	7425	7442	7309
15°	7383	7435	7265
20°	7380	7397	7187
25°	7235	7326	7108
30°	7154	7230	6963
35°	7082	7121	6800
40°	6993	6993	6671
45°	6786	6925	6508
50°	6699	6825	6340
55°	6503	6674	6075
60°	6278	6474	5851
65°	6067	6262	5559
70°	5717	6005	5235
75°	5271	5458	4697
80°	4640	4826	3970
85°	3390	3779	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.5
10°-20°	124.2	4.3
20°-30°	186.7	6.5
30°-40°	222.8	7.8
40°-50°	228.9	8.0
50°-60°	205.4	7.2
60°-70°	155.5	5.4
70°-80°	88.8	3.1
80°-90°	23.3	0.8
90°-100°	14.4	0.5
100°-110°	63.8	2.2
110°-120°	183.2	6.4
120°-130°	279.1	9.8
130°-140°	302.9	10.6
140°-150°	289.7	10.1
150°-160°	238.7	8.3
160°-170°	156.2	5.5
170°-180°	54.1	1.9
0°-30°	354.4	12.4
0°-40°	577.2	20.2
0°-60°	1011.6	35.4
0°-90°	1279.2	44.7
90°-120°	261.3	9.1
90°-150°	1133.0	39.6
90°-180°	1582.0	55.3
0°-180°	2861.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	460	460	460	460	460	
5°	461	459	463	456	456	44
15°	442	445	445	441	435	125
25°	406	410	411	406	399	188
35°	359	361	361	353	345	225
45°	297	303	303	292	285	230
55°	231	236	237	225	216	207
65°	159	162	164	153	146	156
75°	84	88	88	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	39	73	50	54	17
115°	137	361	185	86	97	190
125°	546	475	294	146	124	479
135°	602	545	390	242	192	464
145°	630	586	466	344	294	394
155°	636	610	521	432	394	294
165°	623	607	559	502	478	177
175°	586	588	576	550	537	57
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
2.5°	459.2	460.0	461.7	459.3	462.5	459.3	460.0	458.4	456.0
5°	461.1	459.1	459.0	459.1	463.1	458.1	456.0	455.0	456.0
7.5°	455.4	455.8	455.6	455.3	459.6	451.9	454.9	451.9	452.3
10°	452.9	450.9	453.9	451.9	453.9	450.9	450.9	447.8	445.8
12.5°	450.5	449.3	450.7	447.1	453.1	445.4	444.4	443.8	444.2
15°	441.7	444.7	444.8	441.8	444.8	437.8	440.7	436.6	434.6
17.5°	436.8	433.8	435.2	432.8	436.2	430.5	430.1	425.9	426.5
20°	429.5	426.5	429.5	425.5	430.5	421.6	424.4	419.3	418.3
22.5°	419.7	419.1	423.0	419.8	420.8	415.8	415.5	409.5	408.5
25°	406.1	407.1	410.2	405.2	411.2	403.2	406.1	397.0	399.0
27.5°	394.3	394.5	398.0	395.5	396.7	390.6	390.8	383.1	381.7
30°	383.7	384.7	389.8	385.8	387.8	380.8	382.7	372.5	373.5
32.5°	376.4	374.2	378.4	374.4	378.0	371.0	371.3	363.5	362.1
35°	359.3	359.3	361.3	361.3	361.3	354.3	353.2	346.0	345.0
37.5°	341.6	340.8	347.7	342.4	344.8	339.1	336.9	329.9	328.7
40°	331.8	327.8	333.8	331.8	331.8	326.8	324.7	318.5	316.5
42.5°	318.0	317.2	321.6	320.5	322.8	314.7	312.5	305.5	304.3
45°	297.2	298.2	303.3	301.3	303.3	298.3	292.1	287.0	285.0
47.5°	279.7	278.1	282.9	282.8	284.8	277.2	274.4	266.7	266.3
50°	266.7	266.7	270.7	269.8	271.7	265.8	260.6	254.4	252.4
52.5°	253.6	252.0	256.9	256.7	257.1	251.9	246.7	241.4	240.2
55°	231.0	232.0	236.1	236.1	237.1	232.2	224.9	218.8	215.8
57.5°	209.9	209.3	213.1	214.3	214.3	209.4	202.9	197.8	196.6
60°	194.4	195.4	198.5	200.5	200.5	195.5	188.3	183.2	181.2
62.5°	179.7	179.9	183.8	185.1	186.7	180.9	174.4	169.3	167.3
65°	158.8	157.8	161.8	163.9	163.9	158.9	152.7	147.5	145.5
67.5°	135.0	136.4	139.6	140.9	141.9	135.9	129.9	126.6	125.6
70°	121.1	120.1	124.2	126.2	127.2	121.3	116.0	111.9	110.9
72.5°	106.5	106.3	109.5	111.6	111.8	105.8	101.4	98.1	95.5
75°	84.5	85.5	87.5	87.5	87.5	83.5	80.4	77.3	75.3
77.5°	62.9	63.9	65.7	67.6	66.6	63.0	59.8	56.8	55.0
80°	49.9	50.9	51.9	52.9	51.9	49.9	46.8	43.7	42.7
82.5°	36.8	37.0	39.7	39.9	38.9	36.9	34.6	31.5	31.3
85°	18.3	19.3	21.4	21.4	20.4	19.4	17.3	15.2	14.2
87.5°	4.1	4.9	6.5	8.1	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	8.9	8.1	7.6
95°	2.1	2.1	3.2	10.1	10.1	16.3	22.3	21.7	21.7
97.5°	4.8	5.3	7.4	30.7	22.9	22.3	31.8	35.0	35.3
100°	6.9	7.4	11.7	50.0	33.9	28.8	33.9	41.4	43.0
102.5°	9.4	10.4	18.5	79.0	47.9	34.5	39.9	45.2	46.8
105°	14.3	15.9	38.7	132.3	73.2	45.7	50.4	53.1	53.6
107.5°	21.5	27.3	106.0	186.1	103.9	60.5	63.2	65.0	65.7
110°	29.2	41.6	184.0	218.6	126.8	71.8	70.0	74.8	73.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	49.1	85.6	270.2	245.2	149.7	85.2	76.4	84.1	84.8
115°	137.4	235.9	361.2	283.1	184.6	108.3	86.5	94.0	97.1
117.5°	344.8	410.2	409.1	318.2	218.1	135.6	98.5	102.1	105.7
120°	463.6	473.4	433.3	341.9	239.7	155.2	108.7	107.2	110.3
122.5°	507.7	499.7	451.6	362.7	261.8	175.6	121.9	112.7	115.4
125°	545.8	530.2	475.2	392.4	294.4	205.7	145.9	124.6	124.1
127.5°	566.9	550.6	498.4	418.2	324.3	236.9	173.1	141.5	136.7
130°	577.1	562.0	514.5	433.9	344.2	258.1	193.1	156.3	149.0
132.5°	589.4	573.1	525.9	450.1	363.3	278.1	213.0	174.1	165.6
135°	601.5	586.4	544.7	471.3	390.4	307.4	241.9	203.4	192.5
137.5°	612.3	598.5	561.9	487.9	414.8	336.3	272.4	235.0	221.7
140°	619.5	604.5	569.1	500.7	429.6	354.4	292.8	255.4	245.0
142.5°	622.0	612.8	576.8	511.4	446.2	371.8	313.1	274.5	265.0
145°	629.6	623.4	586.1	524.3	465.7	397.7	344.2	304.2	293.8
147.5°	634.5	625.1	594.7	538.2	484.8	421.0	372.4	334.0	324.4
150°	634.9	627.6	601.5	546.8	497.5	437.9	389.8	353.6	344.8
152.5°	638.3	629.4	604.9	554.0	506.8	452.2	407.2	373.5	363.9
155°	635.9	629.7	610.0	563.4	521.4	470.6	431.7	401.9	393.6
157.5°	635.9	628.3	610.6	570.6	535.4	490.8	454.7	427.0	420.8
160°	631.7	628.6	611.0	575.8	542.6	502.1	469.9	444.8	436.5
162.5°	630.0	624.8	611.9	579.2	549.0	511.4	483.1	459.3	453.1
165°	622.7	618.0	606.8	580.8	559.0	527.9	502.3	481.0	477.9
167.5°	614.3	610.7	603.3	583.4	565.7	540.3	518.7	501.5	497.3
170°	608.4	602.7	599.9	584.7	569.1	547.8	529.3	513.8	509.2
172.5°	598.2	597.5	595.2	581.4	572.1	554.6	539.1	524.9	521.9
175°	586.1	586.1	587.7	579.1	576.0	561.5	550.5	542.0	537.3
177.5°	572.1	572.5	575.9	575.5	575.9	567.6	564.4	556.4	555.5
180°	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1

(END OF REPORT)