

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: P522290

Luminaire Tested: **SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522290
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

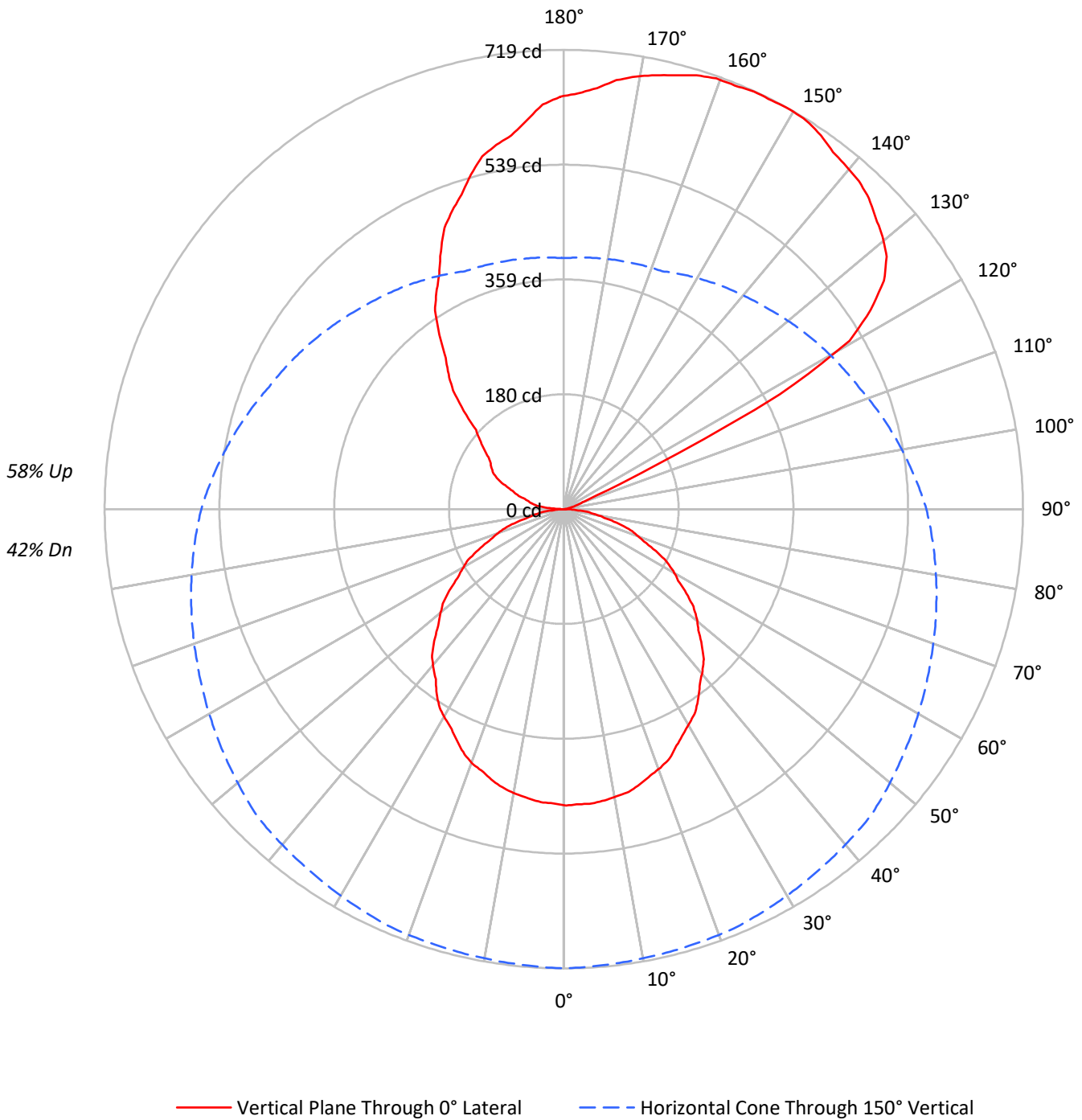
Lumens per Lamp: N/A
Luminaire Lumens: 3094.8 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	84	87	84	80	77	69	67	64	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	38	36	34	29
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	30	27	25	21
5	67	55	47	41	60	50	43	38	42	37	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	44	36	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	16	13	11
10	45	33	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7492	7492	7492
5°	7504	7569	7455
10°	7492	7558	7411
15°	7472	7522	7355
20°	7423	7474	7285
25°	7304	7393	7144
30°	7234	7308	7029
35°	7155	7234	6918
40°	7040	7124	6766
45°	6919	7010	6599
50°	6782	6882	6380
55°	6559	6728	6193
60°	6361	6555	5942
65°	6036	6380	5654
70°	5712	6090	5287
75°	5303	5614	4741
80°	4742	4928	4184
85°	3520	3705	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	1.4
10°-20°	125.5	4.1
20°-30°	188.7	6.1
30°-40°	225.7	7.3
40°-50°	232.0	7.5
50°-60°	207.2	6.7
60°-70°	157.4	5.1
70°-80°	89.9	2.9
80°-90°	23.8	0.8
90°-100°	17.0	0.5
100°-110°	73.4	2.4
110°-120°	209.5	6.8
120°-130°	318.5	10.3
130°-140°	344.5	11.1
140°-150°	329.1	10.6
150°-160°	270.7	8.7
160°-170°	176.9	5.7
170°-180°	61.2	2.0
0°-30°	358.1	11.6
0°-40°	583.8	18.9
0°-60°	1023.0	33.1
0°-90°	1294.2	41.8
90°-120°	299.9	9.7
90°-150°	1291.9	41.7
90°-180°	1801.0	58.2
0°-180°	3094.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	464	464	464	464	464	
5°	463	463	467	462	460	44
15°	447	448	450	444	440	126
25°	410	415	415	408	401	189
35°	363	368	367	359	351	227
45°	303	307	307	298	289	234
55°	233	237	239	227	220	208
65°	158	163	167	155	148	156
75°	85	88	90	81	76	90
85°	19	22	20	18	15	23
90°	0	0	0	0	0	1
95°	3	4	12	27	26	3
105°	17	43	85	58	62	20
115°	154	411	212	101	114	212
125°	616	542	339	166	143	541
135°	682	617	446	277	219	525
145°	710	664	531	393	335	445
155°	718	686	593	492	447	332
165°	701	686	636	570	543	199
175°	661	662	651	627	610	64
180°	645	645	645	645	645	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0	464.0
2.5°	462.4	463.2	464.0	464.1	468.0	463.3	463.2	462.4	460.8
5°	463.0	463.0	463.0	462.1	467.0	461.1	462.0	460.0	460.0
7.5°	460.2	459.4	459.6	458.5	463.4	457.3	457.4	456.2	456.0
10°	457.0	457.0	458.0	456.1	461.0	454.2	455.0	453.0	452.0
12.5°	453.8	453.0	454.0	452.1	457.0	450.2	450.2	447.4	447.2
15°	447.0	447.0	448.0	446.1	450.0	444.1	444.0	441.0	440.0
17.5°	438.4	438.2	440.4	437.5	441.4	434.6	434.6	432.0	430.4
20°	432.0	431.0	434.0	431.1	435.0	428.2	429.0	424.0	424.0
22.5°	424.0	423.0	426.8	423.1	427.0	420.2	421.0	415.2	414.4
25°	410.0	411.0	415.0	412.1	415.0	408.2	408.0	402.0	401.0
27.5°	398.4	397.6	402.8	398.7	401.6	394.8	394.8	387.6	386.6
30°	388.0	388.0	394.0	389.1	392.0	385.2	386.0	378.0	377.0
32.5°	378.4	378.4	383.6	380.3	382.4	375.6	374.8	367.6	366.6
35°	363.0	363.0	368.0	365.0	367.0	360.2	359.0	351.0	351.0
37.5°	346.0	345.2	350.0	348.0	350.0	343.4	341.0	334.0	333.0
40°	334.0	334.0	338.0	336.0	338.0	332.1	329.0	322.0	321.0
42.5°	321.2	321.2	326.0	324.0	326.0	319.4	316.2	309.2	308.2
45°	303.0	303.0	307.0	306.0	307.0	301.1	298.0	290.0	289.0
47.5°	283.6	282.8	286.6	286.8	288.4	281.9	277.8	270.2	269.2
50°	270.0	270.0	273.0	274.0	274.0	269.1	265.0	255.0	254.0
52.5°	254.0	254.8	257.8	258.8	259.6	253.1	249.0	241.4	240.4
55°	233.0	232.0	237.0	238.0	239.0	233.1	227.0	221.0	220.0
57.5°	211.4	211.2	215.4	216.6	217.4	212.5	206.4	199.6	198.4
60°	197.0	196.0	201.0	203.0	203.0	198.1	192.0	186.0	184.0
62.5°	180.2	182.4	185.8	187.8	189.4	183.7	176.8	171.6	169.6
65°	158.0	159.0	163.0	165.0	167.0	161.1	155.0	150.0	148.0
67.5°	135.4	137.2	140.2	142.2	144.2	138.5	132.4	128.2	126.4
70°	121.0	122.0	125.0	127.0	129.0	124.1	118.0	113.0	112.0
72.5°	106.6	107.6	110.6	111.8	113.0	108.1	102.8	99.4	97.6
75°	85.0	86.0	88.0	89.0	90.0	85.1	81.0	78.0	76.0
77.5°	64.6	64.6	66.6	67.4	67.4	64.5	60.6	57.8	56.2
80°	51.0	51.0	53.0	53.0	53.0	50.1	47.0	45.0	45.0
82.5°	37.4	38.2	40.2	40.2	39.4	37.2	35.0	33.0	33.0
85°	19.0	20.0	22.0	22.0	20.0	20.0	18.0	17.0	15.0
87.5°	4.8	5.6	7.2	8.0	6.4	6.4	4.8	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.8	2.6	9.5	10.5	9.2	9.2
95°	2.7	2.7	3.8	12.0	11.5	19.5	27.4	25.7	25.7
97.5°	5.6	6.1	8.8	35.6	26.8	26.1	37.0	41.2	42.0
100°	8.2	8.8	13.1	58.2	40.0	34.1	40.5	48.2	49.9
102.5°	11.3	12.2	21.0	91.6	56.2	40.0	46.2	53.1	55.1
105°	17.0	18.6	43.3	153.5	84.9	52.2	58.1	60.8	62.5
107.5°	25.2	31.7	116.6	215.6	120.5	69.0	75.2	74.8	76.1
110°	34.0	47.4	201.6	249.7	146.8	82.0	82.2	86.5	84.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	56.3	94.1	300.6	282.4	173.1	97.6	88.7	98.4	98.9
115°	154.5	265.4	410.9	328.2	212.0	125.2	100.8	110.2	113.9
117.5°	383.0	461.7	467.3	369.0	250.8	156.1	114.6	118.8	123.7
120°	519.3	535.4	493.6	394.0	276.6	178.1	126.0	124.5	129.8
122.5°	572.8	567.0	515.1	417.2	302.1	201.4	140.0	131.4	135.1
125°	615.7	600.7	541.8	449.4	339.1	236.3	166.5	143.0	143.0
127.5°	641.4	623.9	566.3	478.0	372.5	271.5	198.4	161.7	156.7
130°	656.3	637.5	581.2	497.8	394.4	294.3	220.8	177.9	169.8
132.5°	667.7	650.6	595.3	513.3	415.9	316.6	243.1	197.9	184.7
135°	681.5	667.0	616.8	537.0	445.9	350.0	276.6	232.5	219.1
137.5°	690.4	679.1	636.2	556.5	473.7	383.2	310.5	266.2	254.1
140°	695.2	686.1	645.9	568.0	490.8	404.6	334.2	289.0	277.7
142.5°	700.0	692.6	652.9	580.8	507.5	426.0	357.4	312.2	300.1
145°	710.0	701.4	664.5	596.2	531.4	455.9	393.3	346.0	335.3
147.5°	717.0	706.7	674.0	612.8	553.9	482.9	426.3	380.6	370.0
150°	718.7	708.0	679.3	621.6	567.5	499.5	446.5	403.0	392.8
152.5°	717.4	709.3	683.2	629.2	578.9	515.6	464.9	424.5	415.1
155°	718.2	710.7	686.4	639.3	593.3	538.1	492.5	456.7	447.0
157.5°	714.9	710.0	688.6	647.1	606.5	558.2	517.8	487.7	477.9
160°	714.9	707.4	688.6	651.6	615.7	571.3	533.6	506.5	498.5
162.5°	710.1	703.4	688.2	654.8	624.5	583.5	548.5	523.2	517.4
165°	701.2	695.8	685.9	659.0	635.5	600.1	569.7	547.2	543.4
167.5°	694.3	686.9	681.5	658.9	642.9	612.1	587.7	569.0	566.9
170°	686.4	681.6	677.1	657.7	646.4	620.7	600.4	581.7	579.6
172.5°	676.3	673.7	671.4	656.9	648.6	628.0	611.4	594.4	590.5
175°	660.7	662.8	662.3	655.1	650.8	637.4	627.2	615.1	610.3
177.5°	651.0	650.2	652.3	651.0	650.6	642.4	639.6	631.4	633.9
180°	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3

(END OF REPORT)