

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: P522295

Luminaire Tested: **SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522295
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

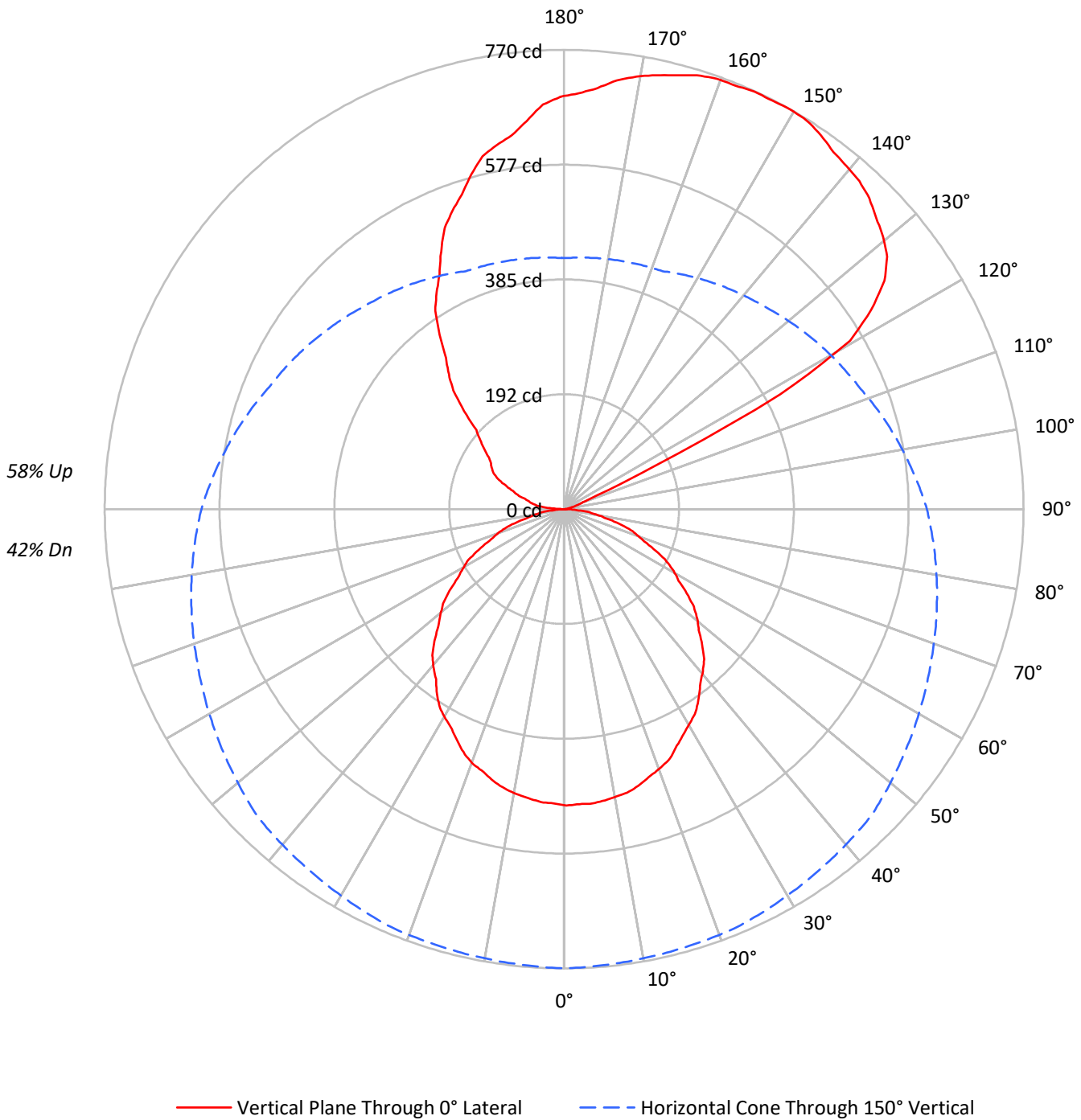
Lumens per Lamp: N/A
Luminaire Lumens: 3315.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.2
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°	8024	8024	8024
5°	8037	8107	7985
10°	8025	8096	7938
15°	8003	8057	7878
20°	7950	8005	7804
25°	7824	7919	7652
30°	7748	7828	7528
35°	7663	7748	7411
40°	7541	7630	7246
45°	7412	7508	7069
50°	7264	7372	6835
55°	7026	7206	6632
60°	6814	7020	6365
65°	6464	6835	6055
70°	6118	6524	5665
75°	5677	6014	5078
80°	5077	5281	4482
85°	3779	3964	2983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.4
10°-20°	134.5	4.1
20°-30°	202.1	6.1
30°-40°	241.7	7.3
40°-50°	248.5	7.5
50°-60°	222.0	6.7
60°-70°	168.6	5.1
70°-80°	96.3	2.9
80°-90°	25.5	0.8
90°-100°	18.2	0.5
100°-110°	78.7	2.4
110°-120°	224.4	6.8
120°-130°	341.1	10.3
130°-140°	369.0	11.1
140°-150°	352.5	10.6
150°-160°	289.9	8.7
160°-170°	189.5	5.7
170°-180°	65.5	2.0
0°-30°	383.6	11.6
0°-40°	625.3	18.9
0°-60°	1095.8	33.1
0°-90°	1386.2	41.8
90°-120°	321.2	9.7
90°-150°	1383.8	41.7
90°-180°	1929.0	58.2
0°-180°	3315.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	497	497	497	497	497	
5°	496	496	500	495	493	47
15°	479	480	482	476	471	135
25°	439	444	444	437	430	203
35°	389	394	393	384	376	243
45°	325	329	329	319	310	250
55°	250	254	256	243	236	223
65°	169	175	179	166	158	168
75°	91	94	96	87	81	97
85°	20	24	21	19	16	25
90°	0	0	0	0	0	1
95°	3	4	12	29	28	4
105°	18	46	91	62	67	21
115°	166	440	227	108	122	228
125°	660	580	363	178	153	580
135°	730	661	478	296	235	563
145°	760	712	569	421	359	476
155°	769	735	636	528	479	355
165°	751	735	681	610	582	213
175°	708	709	697	672	654	69
180°	691	691	691	691	691	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0	497.0
2.5°	495.3	496.1	497.0	497.1	501.3	496.3	496.1	495.3	493.6
5°	495.9	495.9	495.9	495.0	500.2	493.9	494.9	492.7	492.7
7.5°	492.9	492.1	492.3	491.1	496.4	489.9	489.9	488.6	488.4
10°	489.5	489.5	490.6	488.6	493.8	486.5	487.4	485.2	484.2
12.5°	486.1	485.2	486.3	484.3	489.5	482.2	482.2	479.2	479.0
15°	478.8	478.8	479.9	477.8	482.0	475.7	475.6	472.3	471.3
17.5°	469.6	469.4	471.7	468.6	472.8	465.5	465.5	462.7	461.0
20°	462.7	461.7	464.9	461.8	465.9	458.6	459.5	454.2	454.2
22.5°	454.2	453.1	457.2	453.2	457.4	450.0	450.9	444.7	443.9
25°	439.2	440.2	444.5	441.4	444.5	437.2	437.0	430.6	429.5
27.5°	426.7	425.9	431.5	427.0	430.2	422.8	422.9	415.1	414.1
30°	415.6	415.6	422.0	416.7	419.9	412.6	413.5	404.9	403.8
32.5°	405.3	405.3	410.9	407.3	409.6	402.3	401.5	393.7	392.7
35°	388.8	388.8	394.2	391.0	393.1	385.8	384.5	376.0	376.0
37.5°	370.6	369.8	374.9	372.8	374.9	367.8	365.3	357.7	356.7
40°	357.8	357.8	362.0	359.9	362.0	355.8	352.4	344.9	343.8
42.5°	344.0	344.0	349.2	347.1	349.2	342.1	338.7	331.2	330.1
45°	324.6	324.6	328.8	327.8	328.8	322.6	319.2	310.6	309.6
47.5°	303.8	302.9	307.0	307.2	308.9	302.0	297.6	289.4	288.3
50°	289.2	289.2	292.4	293.5	293.5	288.3	283.9	273.1	272.1
52.5°	272.1	272.9	276.1	277.2	278.1	271.2	266.7	258.5	257.5
55°	249.6	248.5	253.9	255.0	256.0	249.7	243.1	236.7	235.6
57.5°	226.4	226.2	230.7	232.0	232.9	227.6	221.1	213.8	212.5
60°	211.0	210.0	215.3	217.4	217.4	212.2	205.7	199.2	197.1
62.5°	193.0	195.3	199.0	201.2	202.9	196.8	189.4	183.8	181.7
65°	169.2	170.3	174.6	176.8	178.9	172.6	166.0	160.6	158.5
67.5°	145.0	146.9	150.2	152.4	154.5	148.4	141.8	137.3	135.4
70°	129.6	130.7	133.9	136.1	138.2	132.9	126.4	121.0	120.0
72.5°	114.2	115.2	118.5	119.8	121.0	115.8	110.1	106.4	104.5
75°	91.0	92.1	94.3	95.4	96.4	91.2	86.8	83.5	81.4
77.5°	69.2	69.2	71.3	72.2	72.2	69.1	64.9	61.9	60.2
80°	54.6	54.6	56.8	56.8	56.8	53.6	50.3	48.2	48.2
82.5°	40.1	40.9	43.1	43.0	42.2	39.9	37.5	35.3	35.3
85°	20.4	21.4	23.6	23.5	21.4	21.4	19.3	18.2	16.1
87.5°	5.1	6.0	7.7	8.5	6.9	6.9	5.1	3.4	3.4
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	1.9	2.8	10.2	11.3	9.9	9.9
95°	2.9	2.9	4.1	12.9	12.3	20.9	29.3	27.6	27.6
97.5°	6.0	6.6	9.4	38.2	28.8	27.9	39.7	44.1	44.9
100°	8.8	9.4	14.1	62.3	42.8	36.5	43.4	51.7	53.4
102.5°	12.1	13.1	22.5	98.1	60.2	42.9	49.5	56.8	59.0
105°	18.2	19.9	46.4	164.4	91.0	56.0	62.2	65.2	66.9
107.5°	27.0	34.0	124.9	231.0	129.1	73.9	80.5	80.1	81.6
110°	36.4	50.7	215.9	267.4	157.3	87.8	88.0	92.7	91.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.3	100.8	322.0	302.5	185.4	104.5	95.1	105.4	106.0
115°	165.5	284.2	440.1	351.6	227.1	134.1	108.0	118.0	122.1
117.5°	410.3	494.5	500.5	395.2	268.6	167.2	122.8	127.2	132.5
120°	556.3	573.5	528.7	422.0	296.3	190.8	135.0	133.3	139.1
122.5°	613.5	607.3	551.7	446.9	323.6	215.7	150.0	140.8	144.7
125°	659.5	643.5	580.3	481.4	363.2	253.1	178.4	153.1	153.1
127.5°	687.0	668.3	606.6	512.0	399.0	290.8	212.5	173.2	167.8
130°	703.0	682.9	622.6	533.2	422.5	315.2	236.5	190.5	181.9
132.5°	715.2	696.9	637.6	549.8	445.5	339.1	260.4	212.0	197.9
135°	730.0	714.5	660.7	575.2	477.6	374.9	296.3	249.1	234.7
137.5°	739.5	727.4	681.5	596.0	507.4	410.5	332.6	285.1	272.1
140°	744.6	734.9	691.8	608.4	525.8	433.4	357.9	309.5	297.5
142.5°	749.8	741.9	699.3	622.1	543.6	456.3	382.8	334.4	321.4
145°	760.5	751.3	711.8	638.6	569.2	488.3	421.3	370.6	359.1
147.5°	768.0	757.0	722.0	656.3	593.4	517.3	456.6	407.7	396.3
150°	769.9	758.4	727.6	665.9	607.9	535.0	478.2	431.6	420.7
152.5°	768.4	759.7	731.8	673.9	620.1	552.3	497.9	454.6	444.7
155°	769.3	761.2	735.2	684.8	635.5	576.4	527.5	489.1	478.8
157.5°	765.7	760.5	737.6	693.2	649.7	597.9	554.6	522.3	511.9
160°	765.7	757.7	737.6	698.0	659.5	611.9	571.5	542.6	534.0
162.5°	760.6	753.5	737.1	701.4	668.9	625.0	587.5	560.5	554.2
165°	751.1	745.3	734.6	705.9	680.7	642.8	610.3	586.1	582.1
167.5°	743.7	735.8	730.0	705.7	688.6	655.6	629.5	609.5	607.2
170°	735.2	730.1	725.3	704.4	692.4	664.9	643.1	623.1	620.8
172.5°	724.4	721.6	719.2	703.6	694.7	672.7	654.8	636.7	632.5
175°	707.7	710.0	709.4	701.7	697.1	682.8	671.9	658.8	653.7
177.5°	697.3	696.4	698.7	697.3	696.9	688.1	685.1	676.3	679.0
180°	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2

(END OF REPORT)