

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: P522292

Luminaire Tested: **SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522292
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3202.3 lumens
Efficiency: N/A
Efficacy: 112.8 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

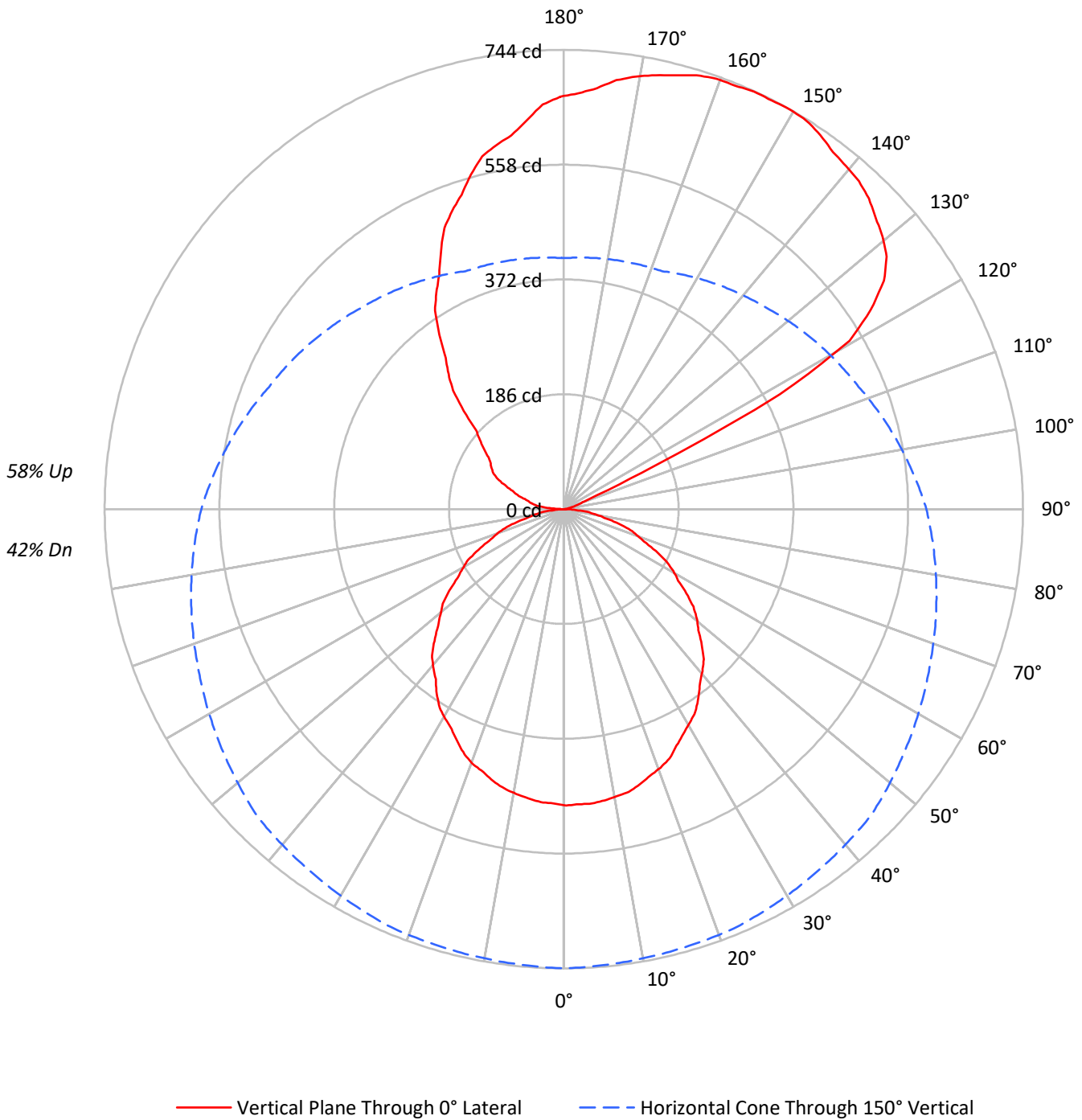
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	7752	7752	7752
5°	7765	7831	7715
10°	7753	7820	7668
15°	7731	7783	7611
20°	7680	7734	7538
25°	7557	7650	7391
30°	7485	7562	7273
35°	7403	7484	7159
40°	7284	7371	7000
45°	7158	7254	6827
50°	7018	7121	6601
55°	6787	6961	6407
60°	6581	6781	6148
65°	6246	6602	5849
70°	5910	6302	5471
75°	5490	5808	4903
80°	4909	5095	4333
85°	3649	3835	2871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.4
10°-20°	129.9	4.1
20°-30°	195.3	6.1
30°-40°	233.5	7.3
40°-50°	240.0	7.5
50°-60°	214.4	6.7
60°-70°	162.9	5.1
70°-80°	93.1	2.9
80°-90°	24.6	0.8
90°-100°	17.5	0.5
100°-110°	76.0	2.4
110°-120°	216.7	6.8
120°-130°	329.5	10.3
130°-140°	356.4	11.1
140°-150°	340.6	10.6
150°-160°	280.1	8.7
160°-170°	183.0	5.7
170°-180°	63.3	2.0
0°-30°	370.6	11.6
0°-40°	604.1	18.9
0°-60°	1058.5	33.1
0°-90°	1339.1	41.8
90°-120°	310.3	9.7
90°-150°	1336.8	41.7
90°-180°	1863.0	58.2
0°-180°	3202.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	480	480	480	480	480	
5°	479	479	483	478	476	45
15°	462	464	466	459	455	130
25°	424	429	429	422	415	196
35°	376	381	380	372	363	235
45°	314	318	318	308	299	242
55°	241	245	247	235	228	216
65°	164	169	173	160	153	162
75°	88	91	93	84	79	93
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
95°	3	4	12	28	27	4
105°	18	45	88	60	65	20
115°	160	425	219	104	118	220
125°	637	561	351	172	148	560
135°	705	638	461	286	227	543
145°	735	688	550	407	347	460
155°	743	710	614	510	462	343
165°	726	710	658	590	562	206
175°	684	685	673	649	632	66
180°	668	668	668	668	668	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1	480.1
2.5°	478.5	479.3	480.1	480.2	484.3	479.4	479.3	478.4	476.8
5°	479.1	479.1	479.1	478.2	483.2	477.1	478.0	476.0	476.0
7.5°	476.2	475.4	475.6	474.4	479.5	473.2	473.3	472.0	471.8
10°	472.9	472.9	473.9	471.9	477.0	469.9	470.8	468.7	467.7
12.5°	469.6	468.7	469.8	467.8	472.9	465.8	465.8	462.9	462.7
15°	462.5	462.5	463.6	461.6	465.6	459.6	459.4	456.3	455.3
17.5°	453.6	453.4	455.7	452.7	456.7	449.6	449.7	447.0	445.3
20°	447.0	446.0	449.1	446.1	450.1	443.0	443.9	438.7	438.7
22.5°	438.7	437.7	441.6	437.8	441.8	434.7	435.6	429.6	428.8
25°	424.2	425.2	429.4	426.4	429.4	422.3	422.2	415.9	414.9
27.5°	412.2	411.4	416.8	412.5	415.5	408.5	408.5	401.0	400.0
30°	401.5	401.5	407.7	402.6	405.6	398.5	399.4	391.1	390.1
32.5°	391.5	391.5	396.9	393.5	395.7	388.6	387.8	380.3	379.3
35°	375.6	375.6	380.8	377.7	379.7	372.7	371.5	363.2	363.2
37.5°	358.0	357.2	362.2	360.1	362.2	355.3	352.8	345.6	344.6
40°	345.6	345.6	349.7	347.7	349.7	343.7	340.4	333.2	332.1
42.5°	332.4	332.4	337.3	335.3	337.3	330.4	327.2	319.9	318.9
45°	313.5	313.5	317.7	316.6	317.7	311.6	308.3	300.0	299.0
47.5°	293.4	292.6	296.6	296.8	298.4	291.7	287.4	279.6	278.5
50°	279.4	279.4	282.5	283.5	283.5	278.5	274.2	263.8	262.8
52.5°	262.8	263.6	266.8	267.8	268.6	261.9	257.6	249.8	248.7
55°	241.1	240.1	245.2	246.3	247.3	241.2	234.9	228.7	227.6
57.5°	218.7	218.5	222.9	224.1	224.9	219.9	213.6	206.5	205.3
60°	203.8	202.8	208.0	210.0	210.0	205.0	198.7	192.4	190.4
62.5°	186.5	188.7	192.3	194.4	196.0	190.1	182.9	177.5	175.5
65°	163.5	164.5	168.7	170.8	172.8	166.7	160.4	155.2	153.1
67.5°	140.1	141.9	145.1	147.2	149.2	143.3	137.0	132.6	130.8
70°	125.2	126.2	129.3	131.5	133.5	128.4	122.1	116.9	115.9
72.5°	110.3	111.3	114.4	115.7	116.9	111.9	106.4	102.8	101.0
75°	88.0	89.0	91.1	92.1	93.1	88.1	83.8	80.7	78.6
77.5°	66.8	66.8	68.9	69.7	69.7	66.7	62.7	59.8	58.2
80°	52.8	52.8	54.8	54.8	54.8	51.8	48.6	46.6	46.6
82.5°	38.7	39.5	41.6	41.6	40.8	38.5	36.2	34.1	34.1
85°	19.7	20.7	22.8	22.7	20.7	20.7	18.6	17.5	15.5
87.5°	5.0	5.8	7.5	8.2	6.6	6.6	5.0	3.3	3.3
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	2.7	9.8	10.9	9.5	9.5
95°	2.8	2.8	4.0	12.5	11.9	20.2	28.3	26.6	26.6
97.5°	5.8	6.3	9.1	36.9	27.8	27.0	38.3	42.6	43.4
100°	8.5	9.1	13.6	60.2	41.4	35.3	41.9	49.9	51.6
102.5°	11.7	12.7	21.8	94.7	58.2	41.4	47.8	54.9	57.0
105°	17.6	19.2	44.8	158.8	87.9	54.1	60.1	63.0	64.6
107.5°	26.1	32.8	120.6	223.1	124.7	71.4	77.8	77.3	78.8
110°	35.1	49.0	208.6	258.3	151.9	84.8	85.0	89.5	87.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.3	97.4	311.1	292.2	179.1	101.0	91.8	101.8	102.4
115°	159.8	274.6	425.1	339.6	219.4	129.6	104.3	114.0	117.9
117.5°	396.3	477.7	483.5	381.8	259.5	161.5	118.6	122.9	128.0
120°	537.4	554.0	510.7	407.6	286.3	184.3	130.4	128.8	134.3
122.5°	592.7	586.7	532.9	431.7	312.6	208.4	144.9	136.0	139.8
125°	637.1	621.6	560.6	465.0	350.9	244.5	172.3	147.9	147.9
127.5°	663.6	645.6	586.0	494.6	385.4	280.9	205.3	167.3	162.1
130°	679.1	659.7	601.4	515.1	408.1	304.5	228.4	184.0	175.7
132.5°	690.9	673.2	615.9	531.1	430.3	327.6	251.6	204.8	191.1
135°	705.1	690.2	638.3	555.6	461.4	362.2	286.3	240.6	226.7
137.5°	714.3	702.7	658.3	575.8	490.2	396.5	321.3	275.4	262.9
140°	719.3	709.9	668.3	587.7	507.9	418.7	345.8	299.0	287.4
142.5°	724.3	716.7	675.6	600.9	525.1	440.8	369.8	323.0	310.5
145°	734.6	725.7	687.6	616.9	549.8	471.7	407.0	358.0	346.9
147.5°	741.9	731.2	697.4	634.0	573.2	499.7	441.1	393.8	382.8
150°	743.7	732.6	702.9	643.2	587.2	516.9	462.0	416.9	406.4
152.5°	742.3	733.9	707.0	651.0	599.0	533.5	481.0	439.2	429.5
155°	743.1	735.4	710.2	661.5	613.9	556.8	509.6	472.5	462.5
157.5°	739.7	734.6	712.5	669.6	627.6	577.6	535.8	504.6	494.5
160°	739.7	732.0	712.5	674.3	637.1	591.1	552.1	524.1	515.8
162.5°	734.7	727.9	712.1	677.6	646.2	603.7	567.5	541.4	535.3
165°	725.5	720.0	709.7	681.9	657.5	620.9	589.5	566.2	562.3
167.5°	718.4	710.8	705.1	681.8	665.2	633.3	608.1	588.8	586.6
170°	710.2	705.3	700.6	680.5	668.9	642.3	621.2	601.9	599.7
172.5°	699.8	697.0	694.7	679.7	671.1	649.8	632.6	615.0	611.0
175°	683.6	685.8	685.3	677.8	673.4	659.5	649.0	636.4	631.5
177.5°	673.6	672.7	675.0	673.6	673.2	664.7	661.8	653.3	655.9
180°	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7

(END OF REPORT)