

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: P522291

Luminaire Tested: **SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522291
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3151.5 lumens
Efficiency: N/A
Efficacy: 111.0 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

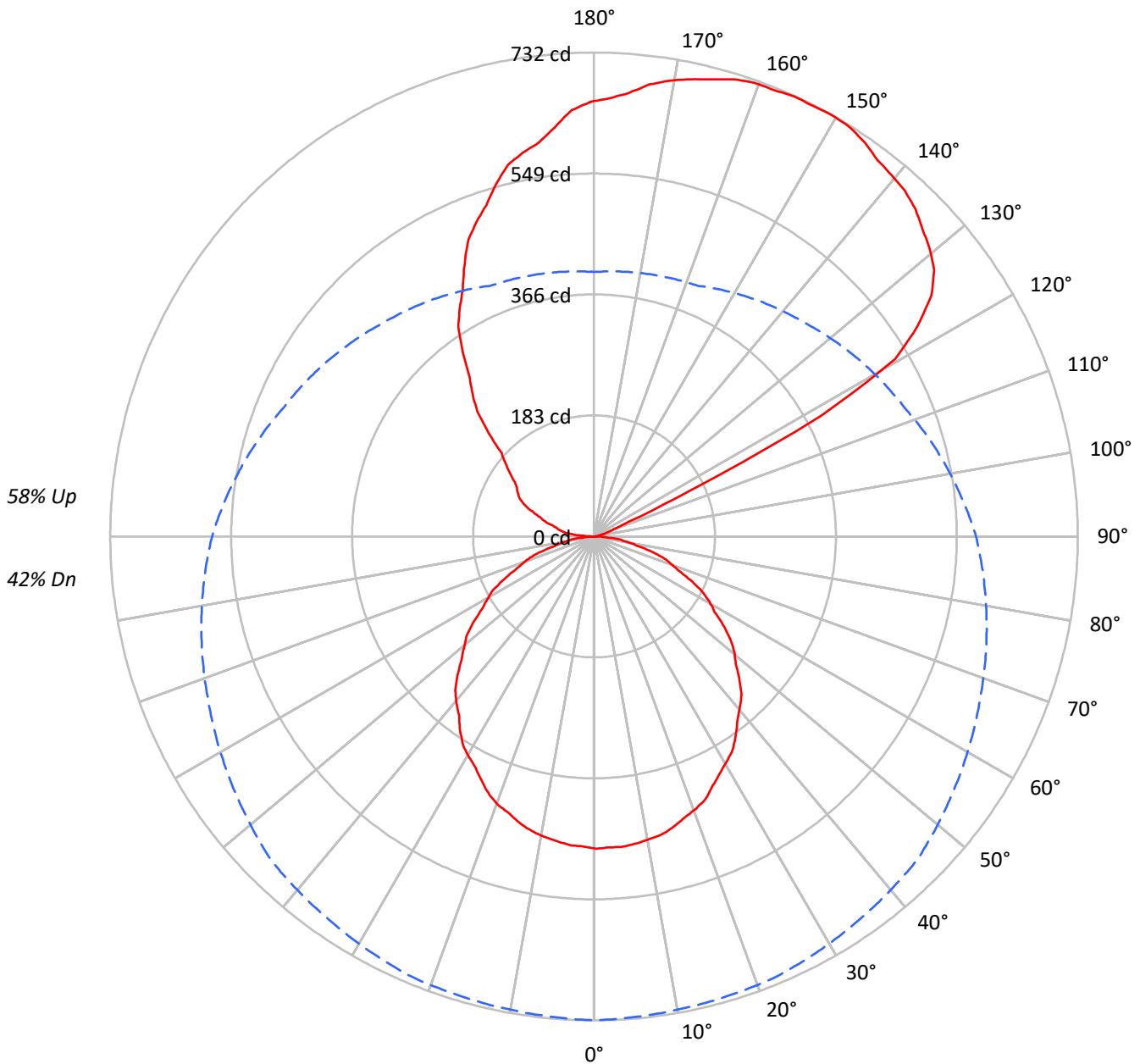
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 150° 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	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°	7629	7629	7629
5°	7642	7707	7592
10°	7630	7696	7547
15°	7609	7659	7490
20°	7558	7612	7419
25°	7438	7529	7274
30°	7366	7443	7157
35°	7285	7366	7045
40°	7168	7255	6890
45°	7044	7138	6720
50°	6905	7008	6496
55°	6680	6852	6305
60°	6478	6675	6051
65°	6147	6499	5757
70°	5816	6203	5382
75°	5402	5714	4828
80°	4826	5021	4258
85°	3575	3779	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.4
10°-20°	127.8	4.1
20°-30°	192.2	6.1
30°-40°	229.8	7.3
40°-50°	236.2	7.5
50°-60°	211.0	6.7
60°-70°	160.3	5.1
70°-80°	91.6	2.9
80°-90°	24.2	0.8
90°-100°	17.3	0.5
100°-110°	74.8	2.4
110°-120°	213.3	6.8
120°-130°	324.3	10.3
130°-140°	350.8	11.1
140°-150°	335.2	10.6
150°-160°	275.6	8.7
160°-170°	180.1	5.7
170°-180°	62.3	2.0
0°-30°	364.7	11.6
0°-40°	594.5	18.9
0°-60°	1041.7	33.1
0°-90°	1317.8	41.8
90°-120°	305.3	9.7
90°-150°	1315.6	41.7
90°-180°	1834.0	58.2
0°-180°	3151.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	472	472	476	470	468	45
15°	455	456	458	452	448	128
25°	418	423	423	416	408	193
35°	370	375	374	366	357	231
45°	308	313	313	304	294	238
55°	237	241	243	231	224	212
65°	161	166	170	158	151	159
75°	87	90	92	82	77	92
85°	19	22	20	18	15	23
90°	0	0	0	0	0	1
95°	3	4	12	28	26	4
105°	17	44	86	59	64	20
115°	157	418	216	103	116	216
125°	627	552	345	170	146	551
135°	694	628	454	282	223	535
145°	723	677	541	400	341	453
155°	731	699	604	502	455	338
165°	714	698	647	580	553	203
175°	673	674	663	639	621	65
180°	657	657	657	657	657	



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CATALOG NUMBER: SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5	472.5
2.5°	470.9	471.7	472.5	472.6	476.6	471.8	471.7	470.8	469.2
5°	471.5	471.5	471.5	470.6	475.5	469.6	470.5	468.4	468.4
7.5°	468.6	467.8	468.0	466.9	471.9	465.7	465.8	464.5	464.3
10°	465.4	465.4	466.4	464.5	469.4	462.5	463.3	461.3	460.3
12.5°	462.1	461.3	462.3	460.4	465.4	458.4	458.4	455.6	455.4
15°	455.2	455.2	456.2	454.3	458.2	452.3	452.1	449.0	448.1
17.5°	446.4	446.2	448.5	445.5	449.5	442.5	442.6	439.9	438.3
20°	439.9	438.9	441.9	439.0	443.0	436.0	436.8	431.8	431.8
22.5°	431.8	430.8	434.6	430.8	434.8	427.8	428.7	422.8	422.0
25°	417.5	418.5	422.6	419.6	422.6	415.6	415.5	409.3	408.3
27.5°	405.7	404.9	410.2	406.0	408.9	402.0	402.0	394.7	393.7
30°	395.1	395.1	401.2	396.2	399.2	392.2	393.1	384.9	383.9
32.5°	385.3	385.3	390.6	387.2	389.4	382.4	381.7	374.3	373.3
35°	369.6	369.6	374.7	371.7	373.7	366.7	365.6	357.4	357.4
37.5°	352.3	351.5	356.4	354.4	356.4	349.6	347.2	340.1	339.1
40°	340.1	340.1	344.2	342.2	344.2	338.2	335.0	327.9	326.9
42.5°	327.1	327.1	332.0	330.0	332.0	325.2	322.0	314.8	313.8
45°	308.5	308.5	312.6	311.6	312.6	306.6	303.5	295.3	294.3
47.5°	288.8	288.0	291.8	292.1	293.7	287.1	282.9	275.1	274.1
50°	274.9	274.9	278.0	279.0	279.0	274.0	269.8	259.6	258.6
52.5°	258.6	259.4	262.5	263.6	264.4	257.8	253.6	245.8	244.8
55°	237.3	236.3	241.3	242.4	243.4	237.4	231.2	225.0	224.0
57.5°	215.3	215.1	219.3	220.6	221.4	216.4	210.2	203.2	202.0
60°	200.6	199.6	204.7	206.7	206.7	201.7	195.5	189.4	187.4
62.5°	183.5	185.7	189.2	191.3	192.9	187.1	180.0	174.7	172.7
65°	160.9	161.9	166.0	168.1	170.1	164.1	157.8	152.7	150.7
67.5°	137.9	139.7	142.8	144.8	146.8	141.1	134.8	130.5	128.7
70°	123.2	124.2	127.3	129.4	131.4	126.4	120.2	115.0	114.0
72.5°	108.6	109.5	112.6	113.9	115.1	110.1	104.7	101.2	99.4
75°	86.6	87.6	89.6	90.7	91.6	86.7	82.5	79.4	77.4
77.5°	65.8	65.8	67.8	68.6	68.6	65.6	61.7	58.8	57.2
80°	51.9	51.9	54.0	54.0	54.0	51.0	47.9	45.8	45.8
82.5°	38.1	38.9	40.9	40.9	40.1	37.9	35.6	33.6	33.6
85°	19.3	20.3	22.4	22.4	20.4	20.4	18.3	17.3	15.3
87.5°	4.9	5.7	7.3	8.1	6.5	6.5	4.9	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	9.7	10.7	9.4	9.4
95°	2.8	2.8	3.9	12.3	11.7	19.9	27.9	26.2	26.2
97.5°	5.7	6.2	8.9	36.3	27.3	26.6	37.7	42.0	42.7
100°	8.4	8.9	13.4	59.3	40.7	34.7	41.3	49.1	50.8
102.5°	11.5	12.5	21.4	93.2	57.2	40.8	47.1	54.0	56.1
105°	17.3	18.9	44.1	156.3	86.5	53.2	59.1	62.0	63.6
107.5°	25.7	32.3	118.7	219.6	122.7	70.3	76.5	76.1	77.5
110°	34.6	48.2	205.3	254.2	149.5	83.5	83.7	88.1	86.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.3	95.9	306.1	287.5	176.3	99.4	90.4	100.2	100.7
115°	157.3	270.2	418.4	334.2	215.9	127.5	102.6	112.2	116.0
117.5°	390.0	470.1	475.8	375.7	255.4	158.9	116.7	120.9	126.0
120°	528.8	545.2	502.6	401.2	281.7	181.3	128.3	126.8	132.2
122.5°	583.3	577.4	524.5	424.9	307.6	205.0	142.6	133.9	137.6
125°	627.0	611.7	551.7	457.7	345.3	240.6	169.6	145.6	145.6
127.5°	653.1	635.3	576.7	486.8	379.3	276.5	202.0	164.7	159.5
130°	668.3	649.2	591.9	506.9	401.6	299.6	224.8	181.1	172.9
132.5°	679.9	662.5	606.1	522.7	423.5	322.4	247.6	201.5	188.1
135°	693.9	679.2	628.1	546.8	454.1	356.4	281.7	236.8	223.1
137.5°	703.0	691.5	647.9	566.6	482.4	390.2	316.2	271.1	258.7
140°	707.9	698.6	657.7	578.4	499.8	412.0	340.3	294.3	282.8
142.5°	712.8	705.3	664.8	591.4	516.8	433.8	363.9	317.9	305.6
145°	723.0	714.2	676.7	607.1	541.1	464.2	400.5	352.3	341.4
147.5°	730.1	719.6	686.4	624.0	564.1	491.8	434.1	387.6	376.8
150°	731.9	721.0	691.7	633.0	577.9	508.6	454.6	410.3	400.0
152.5°	730.5	722.2	695.7	640.7	589.5	525.0	473.4	432.2	422.7
155°	731.3	723.7	699.0	651.0	604.1	548.0	501.5	465.0	455.2
157.5°	728.0	723.0	701.2	659.0	617.6	568.4	527.3	496.6	486.7
160°	728.0	720.3	701.2	663.6	627.0	581.7	543.3	515.8	507.6
162.5°	723.1	716.3	700.8	666.8	635.9	594.2	558.5	532.8	526.8
165°	714.0	708.6	698.4	671.1	647.1	611.1	580.1	557.2	553.4
167.5°	707.0	699.5	693.9	670.9	654.7	623.3	598.4	579.4	577.2
170°	699.0	694.1	689.5	669.7	658.2	632.1	611.4	592.4	590.2
172.5°	688.7	686.0	683.7	668.9	660.5	639.5	622.5	605.3	601.3
175°	672.7	674.9	674.4	667.1	662.7	649.1	638.7	626.3	621.4
177.5°	662.9	662.1	664.3	662.9	662.5	654.2	651.3	642.9	645.5
180°	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1

(END OF REPORT)