

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: P522298

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522298
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-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 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: 3756.6 lumens
Efficiency: N/A
Efficacy: 105.8 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

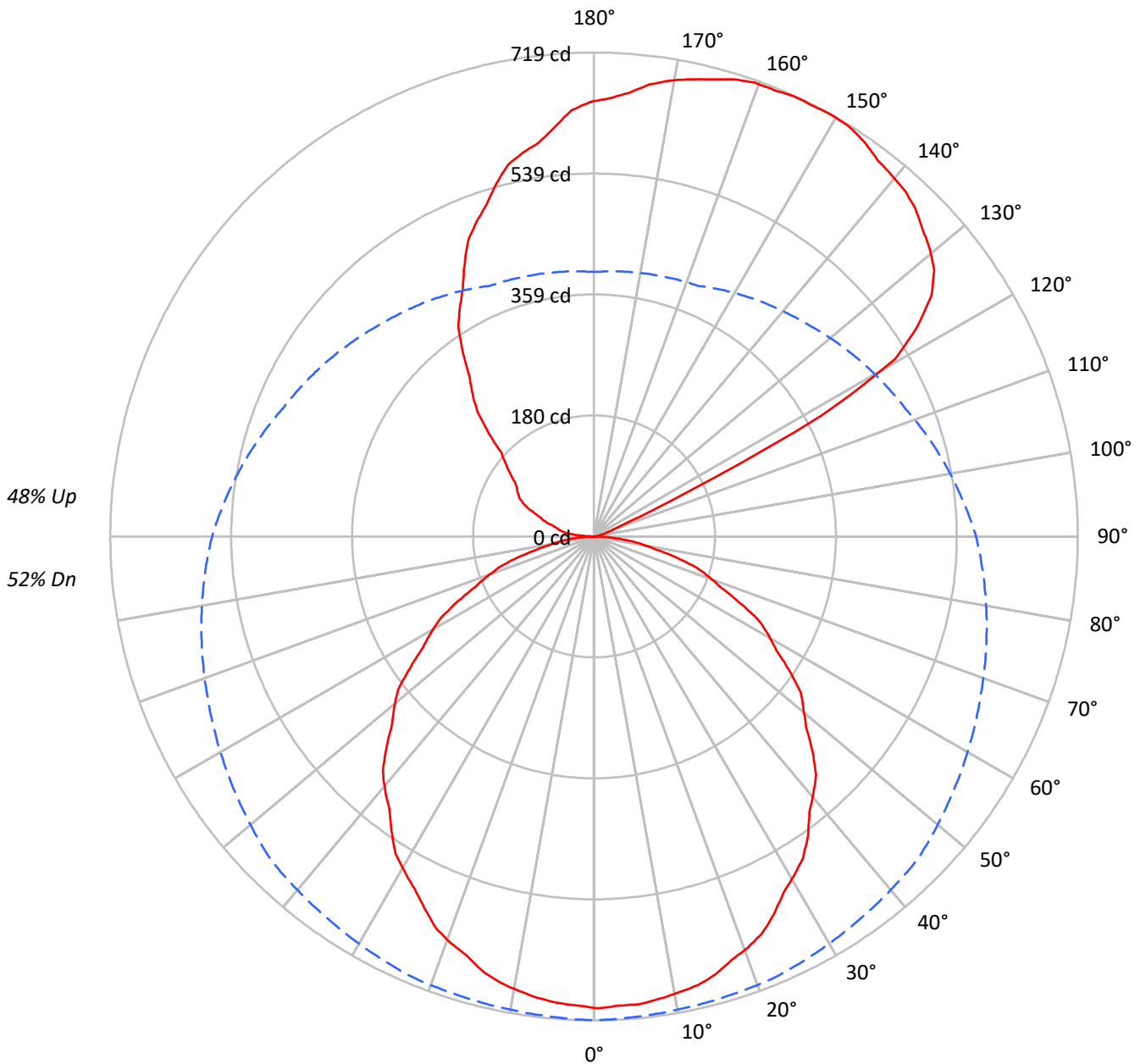
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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										
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	50	30	10	50	30	10	0		
RCR																										
0	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52								
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44								
2	89	82	75	70	82	76	70	66	65	61	57	54	51	49	45	43	41	36								
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31								
4	74	63	55	49	68	59	52	46	50	45	41	43	38	35	35	32	30	26								
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	28	26	23								
6	63	51	42	36	58	47	40	34	41	35	30	34	30	26	29	25	23	20								
7	58	46	37	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17								
8	54	41	33	28	50	39	32	27	33	28	24	29	24	21	24	21	18	16								
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14								
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11318	11318	11318
5°	11313	11426	11264
10°	11296	11411	11214
15°	11283	11350	11132
20°	11203	11289	10997
25°	11063	11170	10814
30°	10907	11056	10664
35°	10782	10920	10466
40°	10581	10770	10286
45°	10389	10618	10047
50°	10123	10424	9796
55°	9909	10190	9430
60°	9623	9978	9074
65°	9093	9551	8558
70°	8592	9111	7978
75°	7923	8359	7299
80°	6881	7345	6137
85°	5187	5743	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	1.8
10°-20°	189.5	5.0
20°-30°	285.1	7.6
30°-40°	340.4	9.1
40°-50°	350.1	9.3
50°-60°	315.0	8.4
60°-70°	238.2	6.3
70°-80°	135.5	3.6
80°-90°	35.8	1.0
90°-100°	17.0	0.5
100°-110°	73.4	2.0
110°-120°	209.5	5.6
120°-130°	318.5	8.5
130°-140°	344.5	9.2
140°-150°	329.1	8.8
150°-160°	270.7	7.2
160°-170°	176.9	4.7
170°-180°	61.2	1.6
0°-30°	540.9	14.4
0°-40°	881.3	23.5
0°-60°	1546.4	41.2
0°-90°	1955.9	52.1
90°-120°	299.9	8.0
90°-150°	1291.9	34.4
90°-180°	1801.0	47.9
0°-180°	3756.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	701	701	701	701	701	
5°	698	698	705	698	695	66
15°	675	676	679	671	666	190
25°	621	627	627	618	607	286
35°	547	553	554	542	531	341
45°	455	461	465	450	440	350
55°	352	359	362	348	335	315
65°	238	245	250	235	224	237
75°	127	131	134	124	117	134
85°	28	32	31	28	25	33
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°	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0
2.5°	697.8	700.1	700.2	699.5	705.8	699.5	701.0	699.3	697.0
5°	698.0	698.0	698.0	697.2	705.0	696.2	698.0	695.0	695.0
7.5°	693.8	694.0	694.8	692.2	700.8	691.0	692.8	689.6	690.4
10°	689.0	690.0	690.0	688.2	696.0	686.2	688.0	684.0	684.0
12.5°	684.2	684.4	685.2	682.6	690.4	679.8	681.6	677.6	676.8
15°	675.0	675.0	676.0	672.2	679.0	669.2	671.0	666.0	666.0
17.5°	661.6	661.4	663.8	658.8	665.8	654.8	658.4	652.2	650.4
20°	652.0	651.0	655.0	649.2	657.0	645.3	648.0	641.0	640.0
22.5°	640.0	639.0	644.6	638.8	645.8	634.1	636.8	627.4	627.2
25°	621.0	620.0	627.0	621.1	627.0	616.2	618.0	608.0	607.0
27.5°	599.4	599.4	607.6	600.8	607.4	596.6	597.4	587.2	587.2
30°	585.0	585.0	594.0	587.1	593.0	582.2	583.0	572.0	572.0
32.5°	569.8	569.8	577.2	571.9	577.8	567.0	567.0	556.0	556.0
35°	547.0	545.0	553.0	548.1	554.0	543.2	542.0	531.0	531.0
37.5°	519.6	518.6	527.4	523.9	528.6	518.0	515.2	504.6	505.6
40°	502.0	501.0	509.0	507.1	511.0	501.2	496.0	487.0	488.0
42.5°	483.6	481.8	489.8	488.7	492.6	482.8	478.4	468.6	468.8
45°	455.0	455.0	461.0	461.1	465.0	454.2	450.0	440.0	440.0
47.5°	424.6	424.8	431.0	431.3	435.0	425.6	421.0	410.2	410.0
50°	403.0	404.0	411.0	412.1	415.0	407.2	401.0	391.0	390.0
52.5°	384.6	383.2	390.2	392.0	394.2	386.4	380.2	370.2	369.2
55°	352.0	353.0	359.0	362.0	362.0	355.2	348.0	337.9	335.0
57.5°	319.6	321.0	325.8	329.6	330.6	323.0	315.6	306.5	302.6
60°	298.0	297.0	305.0	308.0	309.0	302.2	294.0	284.9	281.0
62.5°	274.8	275.4	281.0	285.6	286.6	279.0	271.6	260.1	257.0
65°	238.0	240.9	245.0	248.0	250.0	244.1	235.0	226.0	224.0
67.5°	204.4	206.4	210.4	215.0	216.2	209.6	201.4	193.6	191.4
70°	182.0	184.0	188.0	191.0	193.0	187.1	179.0	171.9	169.0
72.5°	159.6	161.6	164.8	167.8	169.8	163.9	156.6	150.4	148.2
75°	127.0	129.0	131.0	133.0	134.0	130.1	124.0	118.0	117.0
77.5°	94.8	96.8	99.0	101.6	100.6	97.9	92.0	88.0	86.8
80°	74.0	76.0	79.0	80.0	79.0	77.0	72.0	68.0	66.0
82.5°	54.8	56.8	59.8	60.0	58.2	57.8	53.6	50.4	49.2
85°	28.0	30.0	32.0	33.0	31.0	31.0	28.0	25.0	25.0
87.5°	5.6	7.2	9.6	11.9	9.6	10.4	8.0	5.6	5.6
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)