

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: P522519

Luminaire Tested: **SQW-F-050U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522519
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-050D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

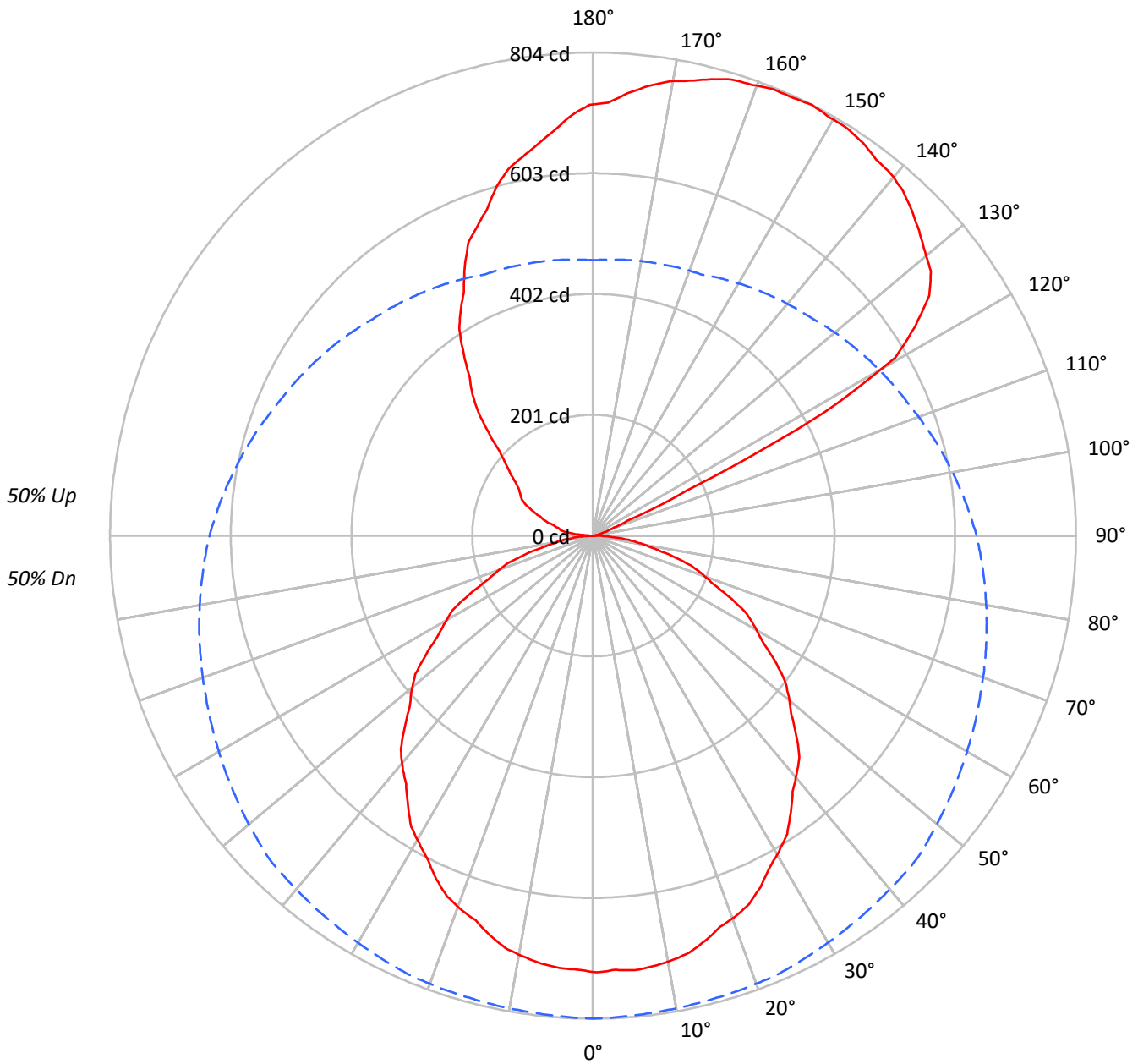
Lumens per Lamp: N/A
Luminaire Lumens: 4016.8 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.5
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 152.5° 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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	44	42	40	35
3	81	71	64	58	74	66	60	54	56	51	47	47	43	40	39	36	34	30
4	74	63	55	49	68	59	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	39	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11738	11738	11738
5°	11783	11831	11702
10°	11788	11837	11640
15°	11701	11818	11483
20°	11632	11684	11340
25°	11544	11544	11206
30°	11373	11466	10962
35°	11176	11314	10722
40°	11002	11129	10517
45°	10846	10960	10207
50°	10625	10776	9972
55°	10331	10528	9627
60°	10010	10301	9203
65°	9666	10048	8749
70°	9158	9441	8025
75°	8484	8546	7236
80°	7531	7624	5858
85°	5928	5743	4076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.7
10°-20°	196.5	4.9
20°-30°	295.6	7.4
30°-40°	352.8	8.8
40°-50°	362.2	9.0
50°-60°	325.6	8.1
60°-70°	246.8	6.1
70°-80°	139.2	3.5
80°-90°	36.1	0.9
90°-100°	18.1	0.5
100°-110°	80.3	2.0
110°-120°	230.8	5.7
120°-130°	351.6	8.8
130°-140°	381.7	9.5
140°-150°	365.0	9.1
150°-160°	300.7	7.5
160°-170°	196.8	4.9
170°-180°	68.1	1.7
0°-30°	560.9	14.0
0°-40°	913.7	22.7
0°-60°	1601.5	39.9
0°-90°	2023.7	50.4
90°-120°	329.3	8.2
90°-150°	1427.5	35.5
90°-180°	1993.0	49.6
0°-180°	4016.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	727	727	727	727	727	
5°	727	726	730	725	722	69
15°	700	703	707	691	687	197
25°	648	650	648	639	629	298
35°	567	576	574	559	544	355
45°	475	481	480	462	447	366
55°	367	374	374	356	342	328
65°	253	260	263	240	229	249
75°	136	138	137	124	116	144
85°	32	35	31	26	22	37
90°	0	0	0	0	0	1
95°	3	4	13	28	27	4
105°	18	49	92	64	68	21
115°	173	455	233	109	122	239
125°	688	599	371	184	156	604
135°	758	686	492	305	243	585
145°	793	738	587	434	370	497
155°	801	768	657	544	496	371
165°	784	764	704	633	602	223
175°	738	740	726	694	677	71
180°	717	717	717	717	717	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
2.5°	723.8	726.9	726.2	725.6	732.6	726.3	727.0	726.1	723.0
5°	727.0	725.0	726.0	725.1	730.0	724.1	725.0	722.0	722.0
7.5°	723.8	720.7	721.6	720.9	725.2	718.6	717.4	713.7	717.2
10°	719.0	715.1	716.0	716.1	722.0	712.2	711.0	708.0	710.0
12.5°	712.6	710.3	710.4	709.0	717.2	704.3	703.8	701.6	702.0
15°	700.0	702.9	703.0	696.2	707.0	691.4	691.0	690.9	687.0
17.5°	685.0	689.1	692.6	684.0	691.2	678.1	677.8	674.3	669.6
20°	677.0	678.0	683.0	675.1	680.0	669.2	669.0	660.0	660.0
22.5°	665.8	666.0	671.8	663.1	668.0	657.2	657.8	647.2	648.0
25°	648.0	647.0	650.0	644.1	648.0	638.2	639.0	628.0	629.0
27.5°	626.0	627.2	631.8	622.7	628.6	616.7	617.0	607.0	605.6
30°	610.0	612.0	619.0	609.1	615.0	602.3	601.0	590.9	588.0
32.5°	593.2	595.2	602.2	594.7	599.8	587.9	585.0	573.4	571.2
35°	567.0	569.0	576.0	572.0	574.0	562.3	559.0	546.9	544.0
37.5°	540.4	542.4	548.2	545.4	547.2	534.9	530.2	519.6	517.4
40°	522.0	524.0	529.0	527.0	528.0	517.2	511.0	501.9	499.0
42.5°	504.4	505.6	509.8	506.3	508.8	498.8	491.8	482.7	478.2
45°	475.0	475.0	481.0	477.1	480.0	470.2	462.0	451.9	447.0
47.5°	444.6	442.8	449.8	448.4	449.8	439.2	431.0	420.5	417.0
50°	423.0	422.0	429.0	430.0	429.0	419.2	411.0	399.0	397.0
52.5°	399.8	401.2	406.6	407.6	407.4	397.6	388.6	377.4	375.4
55°	367.0	369.0	374.0	375.0	374.0	365.2	356.0	344.0	342.0
57.5°	332.4	337.1	341.4	342.4	343.0	333.6	322.2	313.1	309.0
60°	310.0	313.9	319.0	320.0	319.0	311.2	299.0	289.9	285.0
62.5°	287.6	289.9	295.0	297.5	295.0	287.2	275.0	266.8	265.0
65°	253.0	255.0	260.0	262.0	263.0	252.2	240.0	232.9	229.0
67.5°	215.6	217.9	220.8	223.6	224.8	213.5	203.4	195.9	191.6
70°	194.0	194.0	196.0	198.0	200.0	190.2	181.0	172.0	170.0
72.5°	170.8	170.8	173.6	174.8	175.2	166.2	157.8	149.6	149.2
75°	136.0	136.0	138.0	139.0	137.0	131.1	124.0	117.0	116.0
77.5°	103.4	102.8	104.6	105.4	104.4	97.8	90.8	86.0	84.6
80°	81.0	82.0	83.0	83.0	82.0	76.1	70.0	65.9	63.0
82.5°	60.2	61.2	63.0	62.9	60.4	56.9	51.6	46.8	46.2
85°	32.0	32.0	35.0	33.9	31.0	29.0	26.0	22.0	22.0
87.5°	8.0	8.8	10.4	12.7	8.8	9.6	5.6	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.1	1.6	2.7	10.0	11.2	10.1	9.6
95°	2.7	2.7	4.0	12.7	12.7	20.5	28.1	27.4	27.4
97.5°	6.0	6.7	9.4	38.7	28.9	28.1	40.1	44.1	44.5
100°	8.7	9.3	14.7	63.0	42.8	36.2	42.8	52.2	54.1
102.5°	11.9	13.1	23.3	99.5	60.4	43.4	50.3	57.0	58.9
105°	18.0	20.0	48.8	166.7	92.2	57.6	63.5	66.8	67.5
107.5°	27.1	34.4	133.5	234.5	130.8	76.2	79.7	81.9	82.7
110°	36.8	52.4	231.9	275.4	159.7	90.5	88.2	94.2	92.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	61.9	107.9	340.4	308.9	188.6	107.3	96.2	106.0	106.8
115°	173.1	297.2	455.1	356.7	232.6	136.5	108.9	118.4	122.3
117.5°	434.4	516.8	515.5	400.9	274.8	170.9	124.2	128.7	133.1
120°	584.1	596.5	546.0	430.8	302.1	195.5	137.0	135.1	139.0
122.5°	639.7	629.6	569.0	457.0	329.9	221.3	153.6	142.0	145.4
125°	687.6	668.0	598.8	494.4	370.9	259.2	183.8	157.0	156.4
127.5°	714.2	693.7	627.9	526.8	408.6	298.5	218.1	178.3	172.3
130°	727.1	708.1	648.2	546.7	433.7	325.2	243.2	196.9	187.8
132.5°	742.6	722.1	662.6	567.1	457.8	350.3	268.4	219.3	208.6
135°	757.8	738.9	686.3	593.8	491.8	387.3	304.7	256.3	242.6
137.5°	771.4	754.1	708.0	614.7	522.6	423.7	343.2	296.1	279.3
140°	780.5	761.6	717.0	630.8	541.3	446.5	368.9	321.8	308.7
142.5°	783.7	772.1	726.7	644.3	562.1	468.4	394.5	345.9	333.9
145°	793.2	785.4	738.4	660.6	586.7	501.1	433.7	383.3	370.2
147.5°	799.4	787.6	749.3	678.1	610.8	530.4	469.3	420.9	408.7
150°	799.9	790.8	757.8	688.9	626.8	551.7	491.2	445.5	434.4
152.5°	804.2	792.9	762.1	698.0	638.6	569.7	513.1	470.6	458.4
155°	801.2	793.4	768.5	709.8	656.9	592.9	544.0	506.3	495.8
157.5°	801.2	791.6	769.3	719.0	674.5	618.3	572.8	538.0	530.2
160°	795.9	792.0	769.8	725.4	683.6	632.7	592.1	560.4	550.0
162.5°	793.8	787.2	770.9	729.8	691.6	644.3	608.6	578.7	570.8
165°	784.5	778.7	764.5	731.8	704.3	665.1	632.8	606.0	602.1
167.5°	774.0	769.4	760.1	735.0	712.8	680.7	653.6	631.9	626.6
170°	766.5	759.3	755.8	736.6	717.0	690.3	666.9	647.4	641.5
172.5°	753.7	752.7	749.9	732.5	720.8	698.7	679.2	661.4	657.6
175°	738.4	738.4	740.4	729.6	725.7	707.4	693.7	682.8	676.9
177.5°	720.8	721.3	725.6	725.1	725.6	715.1	711.2	701.0	699.9
180°	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0	717.0

(END OF REPORT)