

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: P522342

Luminaire Tested: **SQW-F-050U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522342
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-050U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

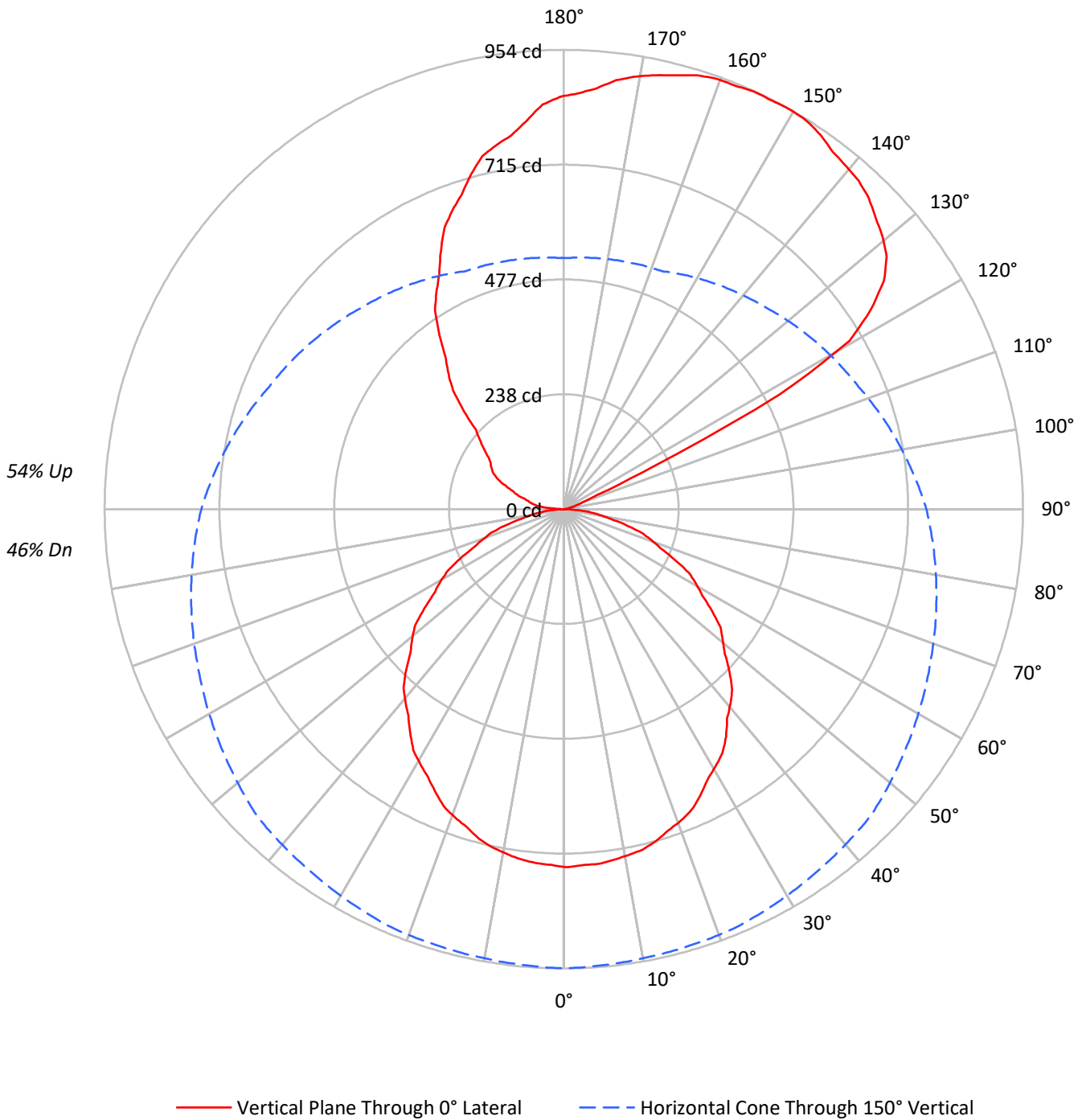
Lumens per Lamp: N/A
Luminaire Lumens: 4465.2 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.8
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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	46				
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	45	44	39				
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32				
3	80	71	63	58	73	65	59	54	55	50	46	45	42	39	36	34	32	27				
4	73	63	55	49	67	58	51	45	49	43	39	40	36	33	32	29	27	23				
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20				
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18				
7	57	45	37	31	52	42	34	29	35	30	26	29	25	22	24	21	18	16				
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14				
9	49	37	30	25	45	34	28	23	29	24	20	25	20	17	20	17	15	12				
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12009	12009	12009
5°	12003	12125	11951
10°	11986	12108	11899
15°	11972	12043	11813
20°	11887	11978	11668
25°	11738	11852	11475
30°	11572	11731	11315
35°	11440	11586	11105
40°	11228	11428	10914
45°	11024	11266	10661
50°	10741	11060	10394
55°	10514	10812	10007
60°	10211	10588	9629
65°	9647	10136	9081
70°	9116	9668	8464
75°	8409	8871	7742
80°	7299	7792	6509
85°	5502	6095	4909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.6
10°-20°	201.1	4.5
20°-30°	302.5	6.8
30°-40°	361.2	8.1
40°-50°	371.5	8.3
50°-60°	334.2	7.5
60°-70°	252.8	5.7
70°-80°	143.7	3.2
80°-90°	38.0	0.9
90°-100°	22.5	0.5
100°-110°	97.5	2.2
110°-120°	278.0	6.2
120°-130°	422.7	9.5
130°-140°	457.2	10.2
140°-150°	436.8	9.8
150°-160°	359.3	8.0
160°-170°	234.8	5.3
170°-180°	81.2	1.8
0°-30°	573.9	12.9
0°-40°	935.1	20.9
0°-60°	1640.8	36.7
0°-90°	2075.3	46.5
90°-120°	398.0	8.9
90°-150°	1714.7	38.4
90°-180°	2390.0	53.5
0°-180°	4465.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	744	744	744	744	744	
5°	741	741	748	741	737	70
15°	716	717	720	712	707	202
25°	659	665	665	656	644	303
35°	580	587	588	575	563	362
45°	483	489	493	478	467	372
55°	374	381	384	369	356	334
65°	252	260	265	249	238	251
75°	135	139	142	132	124	142
85°	30	34	33	30	26	35
90°	0	0	0	0	0	1
95°	4	5	15	36	34	5
105°	22	57	113	77	83	26
115°	205	545	281	134	151	282
125°	817	719	450	221	190	718
135°	904	819	592	367	291	697
145°	942	882	705	522	445	590
155°	953	911	787	654	593	440
165°	931	910	843	756	721	265
175°	877	879	864	832	810	85
180°	856	856	856	856	856	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8	743.8
2.5°	740.4	742.9	743.0	742.3	748.9	742.3	743.8	742.1	739.6
5°	740.6	740.6	740.6	739.8	748.1	738.7	740.6	737.4	737.4
7.5°	736.2	736.4	737.2	734.5	743.6	733.2	735.1	731.7	732.6
10°	731.1	732.1	732.1	730.2	738.5	728.1	730.0	725.8	725.8
12.5°	726.0	726.2	727.0	724.3	732.6	721.4	723.2	719.0	718.1
15°	716.2	716.2	717.3	713.2	720.5	710.1	712.0	706.7	706.7
17.5°	702.0	701.8	704.3	699.0	706.5	694.8	698.6	692.0	690.1
20°	691.8	690.8	695.0	688.8	697.1	684.7	687.6	680.1	679.1
22.5°	679.1	678.0	684.0	677.8	685.2	672.8	675.7	665.7	665.5
25°	658.9	657.9	665.3	659.1	665.3	653.9	655.7	645.1	644.1
27.5°	636.0	636.0	644.7	637.4	644.5	633.1	633.9	623.1	623.1
30°	620.7	620.7	630.3	623.0	629.2	617.8	618.6	606.9	606.9
32.5°	604.6	604.6	612.5	606.9	613.1	601.7	601.6	590.0	590.0
35°	580.4	578.3	586.8	581.6	587.8	576.4	575.1	563.4	563.4
37.5°	551.3	550.3	559.6	555.9	560.9	549.7	546.7	535.4	536.5
40°	532.7	531.6	540.1	538.1	542.2	531.8	526.3	516.8	517.8
42.5°	513.1	511.3	519.7	518.5	522.7	512.3	507.6	497.2	497.4
45°	482.8	482.8	489.2	489.2	493.4	482.0	477.5	466.9	466.9
47.5°	450.5	450.7	457.3	457.6	461.6	451.6	446.7	435.2	435.0
50°	427.6	428.6	436.1	437.2	440.3	432.0	425.5	414.9	413.8
52.5°	408.1	406.6	414.0	416.0	418.3	410.0	403.4	392.8	391.7
55°	373.5	374.5	380.9	384.1	384.1	376.8	369.3	358.6	355.5
57.5°	339.1	340.6	345.7	349.8	350.8	342.7	334.9	325.2	321.1
60°	316.2	315.2	323.6	326.8	327.9	320.6	312.0	302.3	298.2
62.5°	291.6	292.2	298.2	303.1	304.1	296.0	288.2	276.0	272.7
65°	252.5	255.6	260.0	263.2	265.3	259.0	249.4	239.8	237.7
67.5°	216.9	219.0	223.2	228.2	229.4	222.3	213.7	205.4	203.1
70°	193.1	195.2	199.5	202.7	204.8	198.6	189.9	182.4	179.3
72.5°	169.3	171.4	174.9	178.1	180.2	173.9	166.2	159.5	157.3
75°	134.8	136.8	139.0	141.1	142.2	138.0	131.6	125.2	124.1
77.5°	100.6	102.7	105.0	107.8	106.7	103.8	97.6	93.3	92.1
80°	78.5	80.6	83.8	84.9	83.8	81.7	76.4	72.1	70.0
82.5°	58.1	60.2	63.5	63.6	61.8	61.3	56.9	53.4	52.2
85°	29.7	31.8	34.0	35.0	32.9	32.9	29.7	26.5	26.5
87.5°	5.9	7.6	10.2	12.7	10.2	11.0	8.5	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	2.4	3.5	12.6	14.0	12.2	12.2
95°	3.6	3.6	5.1	16.0	15.3	25.9	36.4	34.2	34.2
97.5°	7.4	8.1	11.6	47.3	35.6	34.6	49.1	54.7	55.7
100°	10.9	11.6	17.4	77.2	53.1	45.3	53.8	64.0	66.2
102.5°	15.0	16.3	27.9	121.5	74.6	53.1	61.4	70.4	73.1
105°	22.5	24.7	57.4	203.7	112.7	69.3	77.1	80.8	82.9
107.5°	33.4	42.1	154.7	286.2	160.0	91.6	99.8	99.2	101.1
110°	45.1	62.9	267.6	331.3	194.9	108.8	109.1	114.8	112.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	74.7	124.9	399.0	374.8	229.8	129.5	117.8	130.6	131.3
115°	205.0	352.2	545.3	435.6	281.4	166.2	133.8	146.3	151.2
117.5°	508.4	612.7	620.2	489.7	332.8	207.2	152.1	157.6	164.2
120°	689.3	710.6	655.1	522.9	367.2	236.4	167.2	165.2	172.3
122.5°	760.2	752.5	683.6	553.7	400.9	267.3	185.8	174.5	179.3
125°	817.2	797.3	719.1	596.5	450.1	313.6	221.0	189.8	189.8
127.5°	851.2	828.1	751.6	634.5	494.4	360.3	263.3	214.6	207.9
130°	871.0	846.1	771.4	660.7	523.5	390.5	293.0	236.1	225.4
132.5°	886.1	863.5	790.0	681.2	552.0	420.2	322.7	262.7	245.2
135°	904.5	885.3	818.7	712.7	591.8	464.6	367.2	308.6	290.8
137.5°	916.2	901.3	844.4	738.5	628.8	508.6	412.1	353.3	337.2
140°	922.6	910.6	857.2	753.8	651.4	537.0	443.5	383.6	368.6
142.5°	929.0	919.2	866.5	770.8	673.6	565.4	474.3	414.4	398.3
145°	942.3	930.9	881.9	791.3	705.3	605.0	522.0	459.2	445.0
147.5°	951.6	937.9	894.6	813.3	735.2	640.9	565.8	505.1	491.1
150°	953.9	939.7	901.6	825.0	753.2	663.0	592.6	534.8	521.3
152.5°	952.2	941.4	906.8	835.0	768.4	684.3	617.0	563.3	551.0
155°	953.2	943.2	911.0	848.5	787.4	714.2	653.6	606.1	593.3
157.5°	948.8	942.3	913.9	858.9	805.0	740.9	687.2	647.2	634.3
160°	948.8	938.9	913.9	864.9	817.2	758.2	708.2	672.3	661.6
162.5°	942.4	933.6	913.3	869.1	828.9	774.4	727.9	694.5	686.6
165°	930.6	923.5	910.3	874.7	843.4	796.5	756.1	726.2	721.2
167.5°	921.5	911.7	904.5	874.5	853.3	812.3	780.0	755.2	752.4
170°	911.0	904.6	898.7	872.9	857.9	823.8	796.9	772.1	769.2
172.5°	897.6	894.1	891.1	871.8	860.8	833.5	811.4	788.9	783.8
175°	876.8	879.7	879.0	869.4	863.8	846.0	832.5	816.3	809.9
177.5°	864.0	862.9	865.8	864.0	863.5	852.7	848.9	837.9	841.4
180°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5

(END OF REPORT)