

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: P522345

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522345
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-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

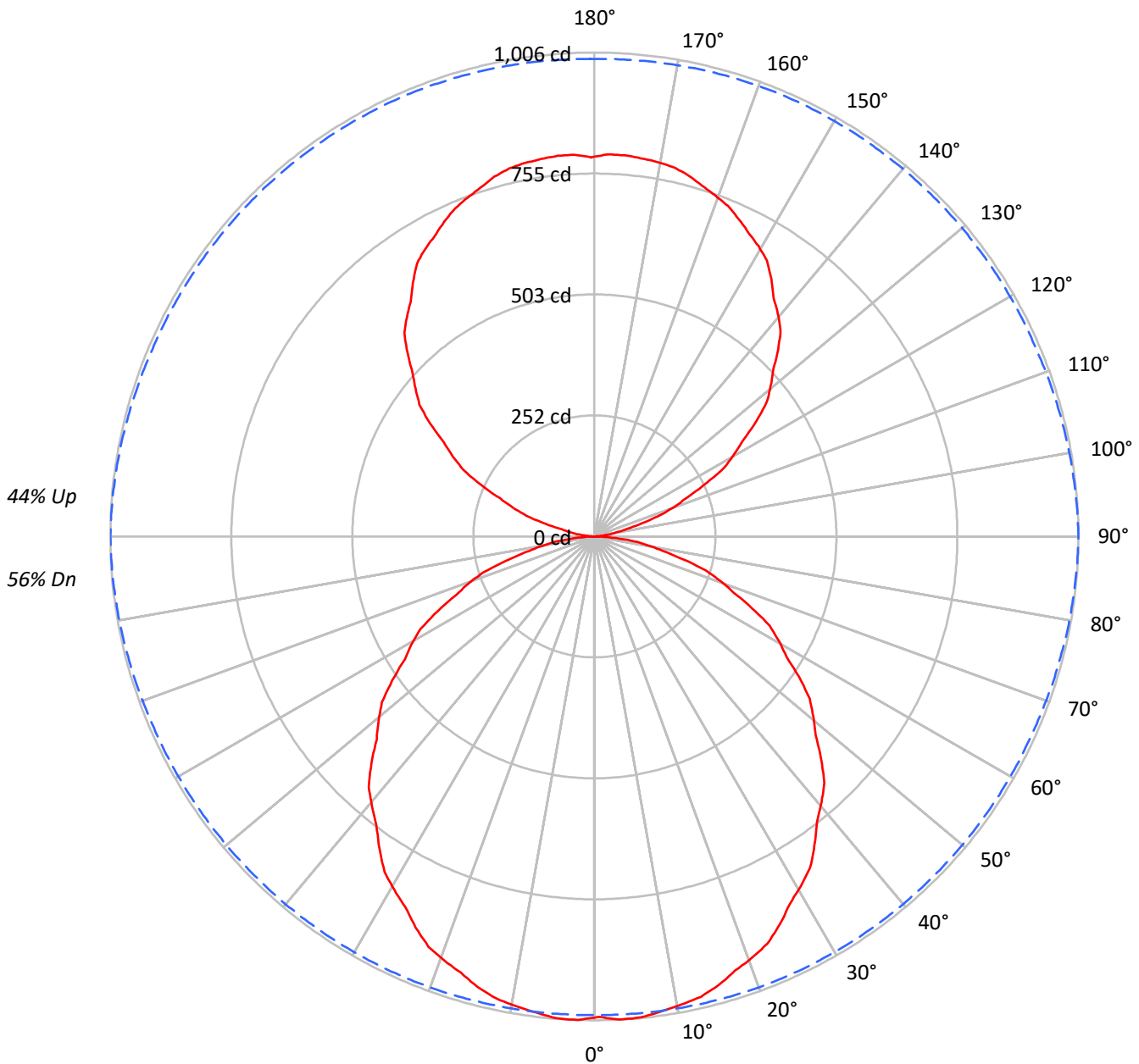
Lumens per Lamp: N/A
Luminaire Lumens: 4989.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.5
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 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56		
1	99	95	91	87	92	88	85	81	76	73	71	65	63	61	54	53	52	47		
2	90	82	76	71	83	77	71	67	66	62	58	57	53	51	48	45	43	39		
3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28		
5	69	57	49	42	64	53	46	40	46	40	36	40	35	32	34	30	27	24		
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	30	27	24	21		
7	59	46	38	32	54	43	36	31	38	32	27	33	28	24	28	24	21	19		
8	54	42	34	28	50	39	32	27	34	29	24	30	25	22	25	22	19	17		
9	51	38	31	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15		
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	16130	16130	16130
5°	16144	16287	16065
10°	16123	16234	15962
15°	16062	16177	15818
20°	15957	16074	15622
25°	15763	15935	15380
30°	15567	15748	15129
35°	15341	15534	14879
40°	15087	15314	14533
45°	14805	15095	14248
50°	14473	14815	13908
55°	14103	14514	13498
60°	13656	14221	12991
65°	13058	13769	12348
70°	12354	13138	11434
75°	11273	11940	10293
80°	9809	10628	8805
85°	7410	8318	6150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.9
10°-20°	270.0	5.4
20°-30°	406.2	8.1
30°-40°	485.2	9.7
40°-50°	498.8	10.0
50°-60°	448.9	9.0
60°-70°	341.6	6.8
70°-80°	193.6	3.9
80°-90°	50.9	1.0
90°-100°	20.7	0.4
100°-110°	89.7	1.8
110°-120°	255.9	5.1
120°-130°	389.0	7.8
130°-140°	420.8	8.4
140°-150°	402.0	8.1
150°-160°	330.7	6.6
160°-170°	216.1	4.3
170°-180°	74.7	1.5
0°-30°	770.7	15.4
0°-40°	1255.8	25.2
0°-60°	2203.5	44.2
0°-90°	2789.5	55.9
90°-120°	366.3	7.3
90°-150°	1578.1	31.6
90°-180°	2200.0	44.1
0°-180°	4989.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	999	999	999	999	999	
5°	996	996	1005	993	991	95
15°	961	963	968	955	946	271
25°	885	894	894	879	863	408
35°	778	789	788	772	755	487
45°	648	657	661	642	624	500
55°	501	511	516	496	480	448
65°	342	352	360	339	323	339
75°	181	186	191	176	165	192
85°	40	45	45	40	33	48
90°	0	0	0	0	0	1
95°	3	5	14	34	32	4
105°	21	53	104	71	76	24
115°	189	502	259	123	139	260
125°	752	662	414	203	175	661
135°	832	754	545	338	268	642
145°	867	812	649	480	410	543
155°	877	838	725	602	546	405
165°	856	838	776	696	664	243
175°	807	809	795	766	745	78
180°	788	788	788	788	788	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	995.1	998.2	998.2	998.4	1006.1	997.7	997.5	997.4	992.8
5°	996.1	996.1	996.1	994.4	1004.9	993.4	993.2	991.2	991.2
7.5°	990.4	988.7	989.8	987.7	997.3	984.9	985.5	983.4	983.0
10°	983.4	982.4	984.4	980.7	990.2	977.8	978.5	975.5	973.6
12.5°	975.6	974.6	977.3	972.1	982.4	970.0	969.9	966.2	965.8
15°	960.9	960.9	962.9	959.2	967.8	955.4	955.1	951.1	946.3
17.5°	943.6	941.5	946.1	940.0	948.8	934.9	935.9	930.2	924.8
20°	928.7	925.8	933.6	926.0	935.5	919.3	921.9	913.0	909.2
22.5°	911.5	909.4	918.0	911.1	919.9	904.5	905.5	894.3	891.2
25°	884.8	883.8	893.6	885.9	894.5	878.3	878.9	867.1	863.3
27.5°	855.3	854.5	865.2	857.6	865.0	850.0	850.4	837.4	832.6
30°	835.0	835.0	845.7	838.0	844.7	830.4	830.1	816.3	811.5
32.5°	813.1	812.3	823.0	816.9	822.9	807.8	806.6	793.6	788.9
35°	778.3	778.3	789.1	782.4	788.1	774.7	771.5	758.7	754.9
37.5°	741.6	740.6	751.4	747.2	752.3	738.2	733.8	720.1	719.1
40°	715.8	714.9	725.6	723.7	726.6	713.2	708.0	694.2	689.5
42.5°	689.3	689.8	699.0	697.2	700.8	687.4	682.2	667.7	665.2
45°	648.4	647.5	657.2	656.4	661.1	647.8	641.6	625.9	624.0
47.5°	605.9	606.2	614.8	615.9	618.8	606.5	599.2	583.7	581.8
50°	576.2	578.1	585.9	587.0	589.8	578.4	570.3	555.6	553.7
52.5°	547.3	548.4	556.3	559.6	560.2	550.2	540.6	526.7	524.8
55°	501.0	503.8	510.7	514.7	515.6	507.0	496.1	482.4	479.5
57.5°	454.1	456.0	465.4	469.9	470.1	461.1	450.2	437.4	432.8
60°	422.9	424.8	432.6	439.5	440.4	429.9	418.9	406.2	402.3
62.5°	390.8	392.7	400.6	407.4	408.4	398.7	386.9	374.2	371.1
65°	341.8	343.7	351.6	359.4	360.4	350.8	338.9	326.1	323.2
67.5°	293.8	295.7	303.3	309.8	311.9	301.6	290.6	278.8	275.0
70°	261.7	263.6	270.5	275.5	278.3	268.8	257.8	246.0	242.2
72.5°	228.1	229.3	236.1	241.8	242.4	234.4	224.2	214.8	211.7
75°	180.7	182.6	186.5	192.4	191.4	183.8	175.8	168.9	165.0
77.5°	135.2	137.3	141.0	144.9	145.5	138.4	131.6	124.7	122.1
80°	105.5	108.3	111.3	115.2	114.3	109.5	103.5	96.6	94.7
82.5°	78.1	80.2	84.0	87.1	84.6	81.3	77.0	70.1	68.2
85°	40.0	41.0	44.9	47.8	44.9	44.0	40.0	35.1	33.2
87.5°	8.6	10.1	13.3	17.1	14.1	14.8	11.7	7.8	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.2	3.2	11.6	12.8	11.2	11.2
95°	3.3	3.3	4.7	14.7	14.1	23.9	33.5	31.5	31.5
97.5°	6.8	7.5	10.7	43.5	32.8	31.9	45.2	50.3	51.3
100°	10.0	10.7	16.1	71.1	48.8	41.7	49.5	58.9	60.9
102.5°	13.8	15.0	25.7	111.8	68.7	48.9	56.5	64.8	67.3
105°	20.7	22.7	52.9	187.5	103.7	63.8	70.9	74.3	76.3
107.5°	30.8	38.8	142.4	263.4	147.2	84.3	91.8	91.3	93.0
110°	41.5	57.8	246.3	305.0	179.3	100.2	100.4	105.7	103.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	68.8	115.0	367.2	344.9	211.5	119.2	108.4	120.2	120.9
115°	188.7	324.1	501.9	400.9	259.0	153.0	123.1	134.6	139.2
117.5°	467.9	563.9	570.8	450.7	306.3	190.7	140.0	145.1	151.1
120°	634.4	654.0	602.9	481.2	337.9	217.5	153.9	152.0	158.6
122.5°	699.7	692.6	629.1	509.6	369.0	246.0	171.0	160.6	165.0
125°	752.1	733.8	661.8	549.0	414.2	288.6	203.4	174.7	174.7
127.5°	783.5	762.1	691.8	583.9	455.0	331.6	242.4	197.5	191.4
130°	801.7	778.8	710.0	608.1	481.8	359.4	269.7	217.3	207.4
132.5°	815.6	794.8	727.1	627.0	508.0	386.7	297.0	241.7	225.6
135°	832.4	814.8	753.5	655.9	544.7	427.6	337.9	284.0	267.7
137.5°	843.3	829.5	777.2	679.7	578.7	468.1	379.3	325.1	310.4
140°	849.2	838.0	788.9	693.8	599.6	494.2	408.2	353.0	339.3
142.5°	855.1	846.0	797.5	709.4	619.9	520.3	436.6	381.4	366.6
145°	867.2	856.8	811.7	728.3	649.1	556.8	480.5	422.6	409.5
147.5°	875.8	863.2	823.3	748.5	676.7	589.9	520.7	464.9	452.0
150°	877.9	864.9	829.8	759.3	693.2	610.2	545.4	492.2	479.8
152.5°	876.3	866.4	834.6	768.5	707.2	629.8	567.8	518.5	507.1
155°	877.3	868.1	838.5	781.0	724.7	657.3	601.6	557.8	546.0
157.5°	873.3	867.2	841.1	790.5	740.9	681.9	632.5	595.7	583.8
160°	873.3	864.1	841.1	796.0	752.1	697.8	651.8	618.7	608.9
162.5°	867.4	859.3	840.6	799.9	762.8	712.7	670.0	639.2	632.0
165°	856.5	850.0	837.8	805.0	776.2	733.0	695.9	668.4	663.8
167.5°	848.1	839.1	832.4	804.8	785.3	747.6	717.9	695.1	692.4
170°	838.5	832.6	827.1	803.3	789.6	758.2	733.4	710.6	708.0
172.5°	826.1	822.9	820.1	802.4	792.3	767.2	746.8	726.1	721.4
175°	807.0	809.6	809.0	800.2	795.0	778.6	766.2	751.3	745.4
177.5°	795.2	794.2	796.8	795.2	794.7	784.7	781.3	771.2	774.4
180°	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3

(END OF REPORT)