

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: P522347

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522347
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5202.3 lumens
Efficiency: N/A
Efficacy: 105.1 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

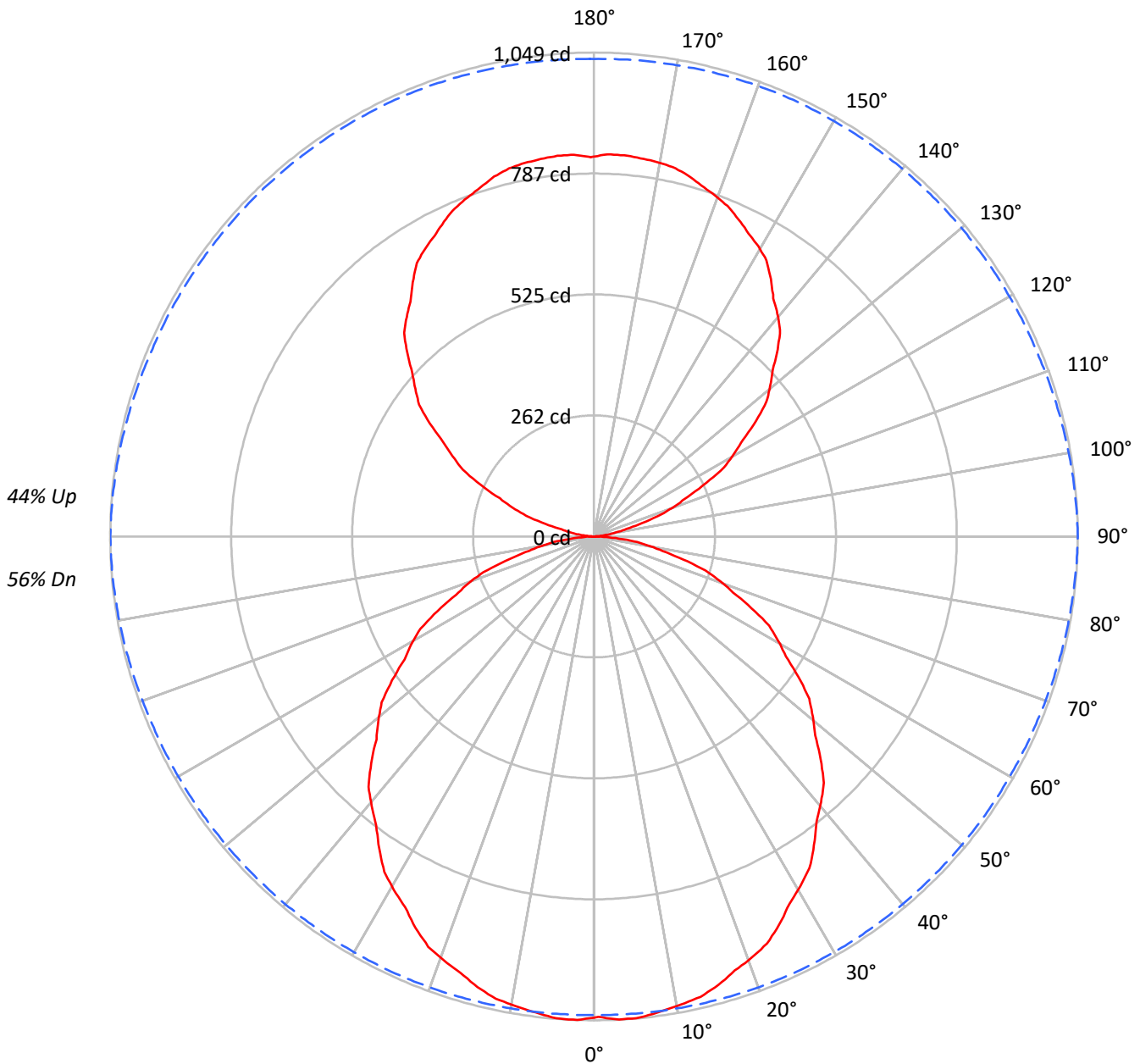
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				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	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°	16819	16819	16819
5°	16835	16982	16752
10°	16811	16928	16644
15°	16749	16868	16493
20°	16639	16761	16289
25°	16436	16618	16037
30°	16231	16421	15776
35°	15997	16198	15514
40°	15732	15968	15152
45°	15438	15742	14858
50°	15091	15448	14503
55°	14705	15136	14075
60°	14237	14832	13546
65°	13616	14357	12879
70°	12883	13700	11920
75°	11753	12452	10736
80°	10228	11074	9186
85°	7744	8670	6410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.9
10°-20°	281.6	5.4
20°-30°	423.5	8.1
30°-40°	505.9	9.7
40°-50°	520.1	10.0
50°-60°	468.0	9.0
60°-70°	356.2	6.8
70°-80°	201.8	3.9
80°-90°	53.1	1.0
90°-100°	21.6	0.4
100°-110°	93.6	1.8
110°-120°	266.8	5.1
120°-130°	405.6	7.8
130°-140°	438.7	8.4
140°-150°	419.2	8.1
150°-160°	344.8	6.6
160°-170°	225.3	4.3
170°-180°	77.9	1.5
0°-30°	803.6	15.4
0°-40°	1309.5	25.2
0°-60°	2297.6	44.2
0°-90°	2908.8	55.9
90°-120°	381.9	7.3
90°-150°	1645.5	31.6
90°-180°	2294.0	44.1
0°-180°	5202.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1042	1042	1042	1042	1042	
5°	1039	1039	1048	1036	1034	99
15°	1002	1004	1009	996	987	283
25°	923	932	933	916	900	425
35°	812	823	822	804	787	507
45°	676	685	689	669	651	521
55°	522	533	538	517	500	467
65°	356	367	376	353	337	353
75°	188	194	200	183	172	200
85°	42	47	47	42	35	50
90°	0	0	0	0	0	1
95°	4	5	15	35	33	4
105°	22	55	108	74	80	25
115°	197	523	270	128	145	271
125°	784	690	432	212	182	689
135°	868	786	568	352	279	669
145°	904	846	677	501	427	566
155°	915	874	756	627	569	423
165°	893	874	809	726	692	254
175°	842	844	829	799	777	82
180°	822	822	822	822	822	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1037.6	1040.8	1040.9	1041.1	1049.0	1040.3	1040.1	1040.0	1035.2
5°	1038.7	1038.7	1038.7	1036.9	1047.8	1035.9	1035.6	1033.6	1033.6
7.5°	1032.8	1031.0	1032.1	1029.9	1039.9	1026.9	1027.7	1025.4	1025.0
10°	1025.4	1024.4	1026.4	1022.6	1032.5	1019.6	1020.3	1017.2	1015.2
12.5°	1017.3	1016.3	1019.1	1013.6	1024.4	1011.5	1011.4	1007.5	1007.1
15°	1002.0	1002.0	1004.0	1000.2	1009.1	996.2	995.9	991.7	986.7
17.5°	983.9	981.7	986.5	980.2	989.4	974.8	975.9	969.9	964.3
20°	968.4	965.4	973.5	965.6	975.5	958.6	961.3	952.0	948.0
22.5°	950.5	948.3	957.2	950.1	959.2	943.1	944.2	932.5	929.3
25°	922.6	921.6	931.7	923.8	932.8	915.8	916.5	904.2	900.2
27.5°	891.8	891.0	902.2	894.2	902.0	886.3	886.7	873.2	868.2
30°	870.6	870.6	881.8	873.9	880.8	865.9	865.5	851.2	846.2
32.5°	847.8	847.0	858.2	851.8	858.0	842.3	841.1	827.6	822.6
35°	811.6	811.6	822.8	815.8	821.8	807.8	804.5	791.1	787.1
37.5°	773.3	772.3	783.5	779.1	784.5	769.8	765.1	750.9	749.9
40°	746.4	745.4	756.6	754.6	757.6	743.7	738.3	723.9	718.9
42.5°	718.7	719.3	728.9	726.9	730.7	716.8	711.4	696.3	693.7
45°	676.1	675.2	685.3	684.4	689.4	675.4	669.0	652.7	650.7
47.5°	631.7	632.1	641.1	642.2	645.2	632.4	624.8	608.7	606.7
50°	600.8	602.8	611.0	612.1	615.0	603.1	594.7	579.4	577.4
52.5°	570.7	571.8	580.0	583.5	584.1	573.7	563.7	549.2	547.2
55°	522.4	525.4	532.6	536.7	537.7	528.7	517.3	503.0	500.0
57.5°	473.5	475.5	485.3	490.0	490.2	480.8	469.4	456.1	451.3
60°	440.9	442.9	451.1	458.3	459.3	448.3	436.8	423.5	419.5
62.5°	407.5	409.5	417.7	424.9	425.9	415.7	403.4	390.1	387.0
65°	356.4	358.4	366.6	374.8	375.8	365.8	353.3	340.0	337.1
67.5°	306.3	308.3	316.3	323.1	325.2	314.5	303.0	290.7	286.8
70°	272.9	274.9	282.1	287.2	290.2	280.3	268.8	256.5	252.5
72.5°	237.9	239.1	246.2	252.1	252.7	244.4	233.8	224.0	220.8
75°	188.4	190.4	194.5	200.6	199.6	191.6	183.3	176.1	172.1
77.5°	140.9	143.1	147.0	151.1	151.7	144.4	137.3	130.1	127.3
80°	110.0	113.0	116.1	120.1	119.1	114.2	107.9	100.8	98.8
82.5°	81.5	83.7	87.6	90.8	88.2	84.8	80.2	73.1	71.1
85°	41.8	42.7	46.8	49.8	46.8	45.8	41.8	36.6	34.6
87.5°	9.0	10.6	13.8	17.8	14.7	15.5	12.2	8.1	7.3
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	2.3	3.3	12.1	13.4	11.7	11.7
95°	3.5	3.5	4.9	15.3	14.7	24.9	34.9	32.8	32.8
97.5°	7.1	7.8	11.2	45.4	34.2	33.2	47.2	52.5	53.4
100°	10.5	11.1	16.7	74.1	50.9	43.4	51.6	61.4	63.5
102.5°	14.4	15.6	26.8	116.6	71.6	51.0	58.9	67.6	70.2
105°	21.6	23.7	55.1	195.5	108.2	66.5	74.0	77.5	79.5
107.5°	32.1	40.4	148.5	274.7	153.5	87.9	95.7	95.2	97.0
110°	43.3	60.3	256.8	318.0	187.0	104.4	104.7	110.2	108.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	71.7	119.9	382.9	359.7	220.5	124.3	113.0	125.3	126.0
115°	196.8	338.0	523.3	418.1	270.0	159.5	128.4	140.4	145.1
117.5°	487.9	588.0	595.2	469.9	319.4	198.8	146.0	151.3	157.6
120°	661.5	681.9	628.7	501.8	352.4	226.8	160.5	158.5	165.4
122.5°	729.6	722.2	656.0	531.4	384.7	256.5	178.3	167.4	172.1
125°	784.3	765.2	690.1	572.5	431.9	300.9	212.1	182.1	182.1
127.5°	816.9	794.7	721.3	608.9	474.5	345.8	252.7	206.0	199.6
130°	835.9	812.0	740.3	634.1	502.4	374.8	281.2	226.5	216.3
132.5°	850.4	828.7	758.2	653.8	529.7	403.2	309.7	252.1	235.3
135°	868.0	849.6	785.7	684.0	568.0	445.8	352.4	296.2	279.1
137.5°	879.3	865.0	810.4	708.8	603.4	488.1	395.5	339.0	323.6
140°	885.4	873.8	822.7	723.4	625.2	515.3	425.6	368.1	353.8
142.5°	891.6	882.2	831.6	739.7	646.4	542.6	455.2	397.6	382.2
145°	904.3	893.4	846.4	759.4	676.8	580.6	501.0	440.7	427.0
147.5°	913.2	900.1	858.5	780.5	705.6	615.1	543.0	484.8	471.3
150°	915.5	901.8	865.2	791.8	722.9	636.2	568.7	513.3	500.3
152.5°	913.8	903.4	870.2	801.4	737.4	656.7	592.1	540.6	528.8
155°	914.8	905.2	874.3	814.3	755.7	685.4	627.3	581.6	569.4
157.5°	910.6	904.3	877.1	824.3	772.6	711.0	659.5	621.1	608.7
160°	910.6	901.0	877.1	830.0	784.3	727.6	679.6	645.2	635.0
162.5°	904.4	896.0	876.5	834.1	795.4	743.2	698.6	666.5	659.0
165°	893.1	886.3	873.6	839.4	809.4	764.4	725.7	696.9	692.2
167.5°	884.3	874.9	868.0	839.2	818.9	779.6	748.5	724.8	722.0
170°	874.3	868.1	862.4	837.7	823.3	790.6	764.7	741.0	738.2
172.5°	861.4	858.0	855.2	836.6	826.1	799.9	778.7	757.1	752.2
175°	841.5	844.2	843.6	834.4	828.9	811.9	798.9	783.4	777.3
177.5°	829.2	828.1	830.9	829.2	828.7	818.3	814.7	804.2	807.4
180°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0	822.0

(END OF REPORT)