

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: P522525

Luminaire Tested: **SQW-F-050U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522525
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-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

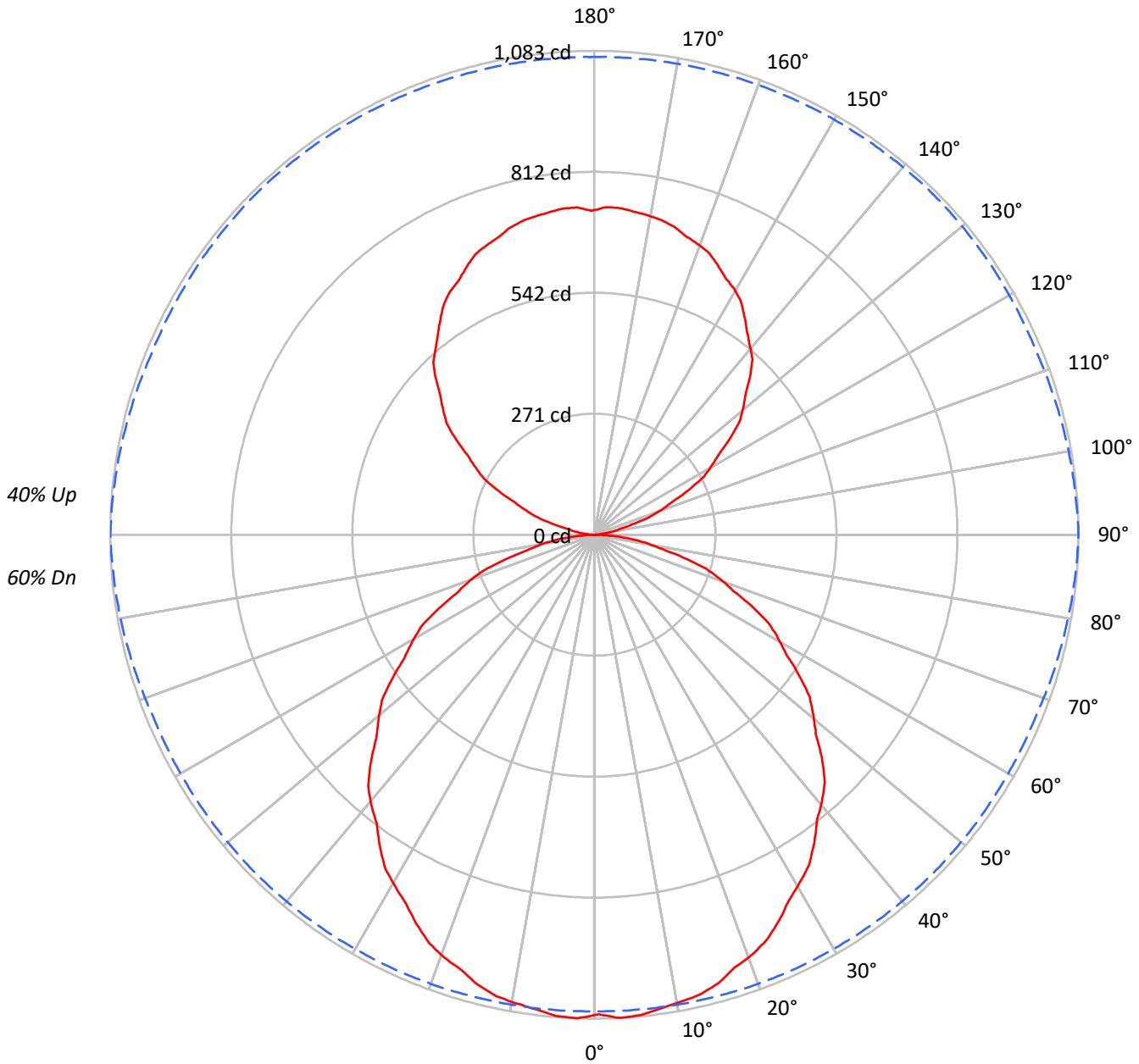
Lumens per Lamp: N/A
Luminaire Lumens: 5009.7 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 48.8
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



— 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	102	102	102	102	89	89	89	76	76	76	65	65	65	60		
1	100	95	91	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50		
2	91	83	77	71	84	78	72	68	68	64	60	59	56	53	50	48	46	42		
3	83	73	65	59	77	68	62	56	60	55	50	52	48	44	44	41	39	35		
4	76	64	56	50	70	60	53	48	53	47	43	46	42	38	40	36	33	30		
5	69	57	49	43	65	54	46	41	47	41	37	41	37	33	36	32	29	26		
6	64	51	43	37	59	48	41	35	43	37	32	37	32	29	32	28	25	23		
7	59	46	38	33	55	44	36	31	39	33	28	34	29	25	29	25	23	20		
8	55	42	34	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18		
9	51	39	31	26	48	36	29	25	32	27	22	28	24	20	25	21	18	16		
10	48	35	28	23	45	33	27	22	30	24	20	26	22	18	23	19	16	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	17329	17329	17329
5°	17264	17511	17363
10°	17084	17431	17382
15°	16995	17401	17265
20°	16740	17261	17173
25°	16438	17069	17033
30°	16129	16863	16770
35°	15837	16693	16513
40°	15506	16531	16318
45°	15162	16292	16061
50°	14775	15943	15739
55°	14311	15648	15305
60°	13740	15274	14883
65°	12974	14789	14285
70°	12118	14120	13596
75°	10717	12863	12358
80°	8926	11278	10897
85°	5798	8800	8429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	2.0
10°-20°	289.8	5.8
20°-30°	436.0	8.7
30°-40°	520.8	10.4
40°-50°	535.9	10.7
50°-60°	481.8	9.6
60°-70°	367.0	7.3
70°-80°	208.2	4.2
80°-90°	54.5	1.1
90°-100°	18.3	0.4
100°-110°	81.2	1.6
110°-120°	233.3	4.7
120°-130°	355.3	7.1
130°-140°	385.7	7.7
140°-150°	368.9	7.4
150°-160°	303.9	6.1
160°-170°	198.9	4.0
170°-180°	68.8	1.4
0°-30°	827.2	16.5
0°-40°	1348.0	26.9
0°-60°	2365.6	47.2
0°-90°	2995.4	59.8
90°-120°	332.8	6.6
90°-150°	1442.7	28.8
90°-180°	2014.0	40.2
0°-180°	5009.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1073	1073	1073	1073	1073	
5°	1065	1066	1080	1073	1071	101
15°	1017	1022	1041	1036	1033	286
25°	923	943	958	964	956	425
35°	804	825	847	852	838	502
45°	664	683	714	710	703	512
55°	508	529	556	553	544	454
65°	340	361	387	384	374	337
75°	172	186	206	204	198	183
85°	31	40	48	50	46	41
90°	0	0	0	0	0	1
95°	3	4	13	28	28	4
105°	18	49	93	64	68	21
115°	175	460	235	110	124	242
125°	695	605	375	186	158	610
135°	766	694	497	308	245	591
145°	802	746	593	438	374	502
155°	810	777	664	550	501	375
165°	793	773	712	640	608	225
175°	746	748	734	701	684	72
180°	725	725	725	725	725	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3	1073.3
2.5°	1066.8	1070.0	1071.7	1068.0	1083.0	1070.4	1074.9	1071.6	1069.3
5°	1065.2	1064.2	1066.2	1062.6	1080.4	1066.5	1073.3	1068.3	1071.3
7.5°	1054.9	1052.9	1056.5	1057.0	1070.5	1060.4	1064.4	1063.1	1066.6
10°	1042.0	1043.9	1050.1	1051.3	1063.2	1052.3	1057.1	1058.2	1060.2
12.5°	1036.3	1032.8	1039.5	1043.3	1055.9	1042.7	1051.5	1050.9	1054.5
15°	1016.7	1015.7	1021.8	1025.1	1041.0	1029.1	1035.9	1035.8	1032.9
17.5°	992.0	992.0	1000.1	1001.7	1018.3	1009.6	1016.3	1013.3	1012.5
20°	974.3	974.3	986.4	984.8	1004.6	996.7	1002.6	995.6	999.5
22.5°	954.0	954.8	969.4	967.0	986.0	981.2	988.0	977.8	982.5
25°	922.7	925.7	942.9	941.3	958.1	953.1	964.2	952.1	956.1
27.5°	889.4	893.5	910.8	910.6	927.2	923.6	936.3	922.3	922.9
30°	865.1	870.0	887.3	888.7	904.5	898.6	913.6	900.5	899.5
32.5°	841.7	845.8	863.1	866.1	881.9	878.3	890.2	877.0	875.2
35°	803.5	808.4	824.7	830.1	846.9	842.0	852.0	839.8	837.8
37.5°	764.0	767.2	784.5	789.2	809.3	805.2	811.5	799.8	800.0
40°	735.7	739.7	757.0	762.5	784.3	779.3	783.2	773.2	774.2
42.5°	707.4	711.4	727.9	735.8	756.0	751.0	754.1	745.7	745.9
45°	664.0	667.0	683.2	693.7	713.5	708.6	710.5	702.4	703.4
47.5°	618.9	621.1	635.9	650.6	667.0	664.8	665.2	655.2	658.1
50°	588.2	591.2	604.4	619.9	634.7	635.7	633.7	623.6	626.6
52.5°	556.7	558.8	574.4	587.5	603.2	604.9	601.3	592.1	594.3
55°	508.4	510.3	528.6	542.0	555.9	556.8	552.8	545.7	543.7
57.5°	458.6	461.6	478.6	493.3	506.9	505.2	503.1	494.8	493.2
60°	425.5	428.4	444.7	460.1	473.0	472.0	469.9	460.9	460.9
62.5°	391.5	395.3	412.3	426.2	439.0	438.8	436.0	429.3	427.7
65°	339.6	343.5	360.8	373.2	387.1	387.1	384.0	375.9	373.9
67.5°	289.9	293.8	308.0	320.9	334.7	333.5	330.7	325.6	322.8
70°	256.7	260.7	270.9	285.3	299.1	297.2	295.1	290.0	288.0
72.5°	221.1	225.9	236.1	248.9	262.0	261.6	259.5	256.8	252.5
75°	171.8	174.8	186.0	197.3	206.2	207.2	204.1	203.0	198.1
77.5°	125.1	128.9	138.1	147.9	154.4	157.6	155.8	153.3	149.6
80°	96.0	99.0	108.1	116.3	121.3	125.2	124.3	120.2	117.2
82.5°	68.5	71.5	79.0	86.4	90.6	94.5	93.6	91.1	86.5
85°	31.3	33.3	40.4	45.5	47.5	52.4	50.5	48.4	45.5
87.5°	4.9	5.6	10.5	15.3	14.6	19.3	17.0	13.7	10.5
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	10.1	11.3	10.3	9.7
95°	2.7	2.7	4.1	12.8	12.8	20.8	28.4	27.7	27.7
97.5°	6.1	6.7	9.5	39.1	29.2	28.4	40.5	44.6	45.0
100°	8.8	9.4	14.9	63.7	43.2	36.6	43.2	52.7	54.7
102.5°	12.0	13.2	23.5	100.5	61.1	43.9	50.8	57.6	59.6
105°	18.2	20.2	49.3	168.5	93.2	58.2	64.2	67.6	68.2
107.5°	27.4	34.8	134.9	237.0	132.2	77.0	80.5	82.8	83.6
110°	37.1	53.0	234.4	278.3	161.4	91.4	89.1	95.2	93.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	62.5	109.0	344.0	312.2	190.6	108.4	97.3	107.1	107.9
115°	174.9	300.4	459.9	360.5	235.0	138.0	110.1	119.6	123.6
117.5°	439.0	522.3	521.0	405.2	277.7	172.7	125.5	130.0	134.5
120°	590.3	602.8	551.8	435.4	305.3	197.6	138.5	136.5	140.5
122.5°	646.5	636.3	575.0	461.9	333.4	223.6	155.2	143.5	147.0
125°	695.0	675.1	605.1	499.6	374.8	261.9	185.7	158.7	158.0
127.5°	721.8	701.1	634.6	532.4	412.9	301.7	220.4	180.2	174.1
130°	734.8	715.7	655.1	552.6	438.3	328.7	245.8	199.0	189.8
132.5°	750.5	729.7	669.7	573.2	462.6	354.1	271.2	221.7	210.9
135°	765.9	746.7	693.6	600.1	497.1	391.4	308.0	259.0	245.2
137.5°	779.6	762.1	715.5	621.2	528.1	428.2	346.9	299.2	282.3
140°	788.8	769.7	724.7	637.5	547.0	451.3	372.8	325.2	312.0
142.5°	792.1	780.3	734.4	651.2	568.1	473.4	398.7	349.6	337.4
145°	801.7	793.7	746.3	667.6	593.0	506.5	438.3	387.4	374.2
147.5°	807.9	796.0	757.2	685.3	617.3	536.1	474.2	425.3	413.1
150°	808.4	799.2	765.9	696.2	633.5	557.6	496.4	450.2	439.0
152.5°	812.7	801.4	770.2	705.5	645.4	575.8	518.5	475.6	463.3
155°	809.8	801.8	776.7	717.4	663.9	599.2	549.8	511.7	501.1
157.5°	809.8	800.0	777.5	726.6	681.7	624.9	578.9	543.8	535.8
160°	804.4	800.4	778.0	733.2	690.9	639.4	598.4	566.4	555.8
162.5°	802.2	795.6	779.1	737.6	699.0	651.2	615.1	584.8	576.9
165°	792.9	786.9	772.6	739.6	711.8	672.2	639.6	612.5	608.5
167.5°	782.2	777.6	768.2	742.8	720.3	688.0	660.5	638.6	633.2
170°	774.6	767.4	763.8	744.5	724.7	697.6	674.0	654.3	648.4
172.5°	761.7	760.8	757.9	740.3	728.5	706.1	686.4	668.4	664.6
175°	746.3	746.3	748.3	737.4	733.5	715.0	701.0	690.1	684.1
177.5°	728.5	729.0	733.3	732.8	733.3	722.8	718.7	708.4	707.4
180°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7

(END OF REPORT)