

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: P522546

Luminaire Tested: **SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522546
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-075U-050D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

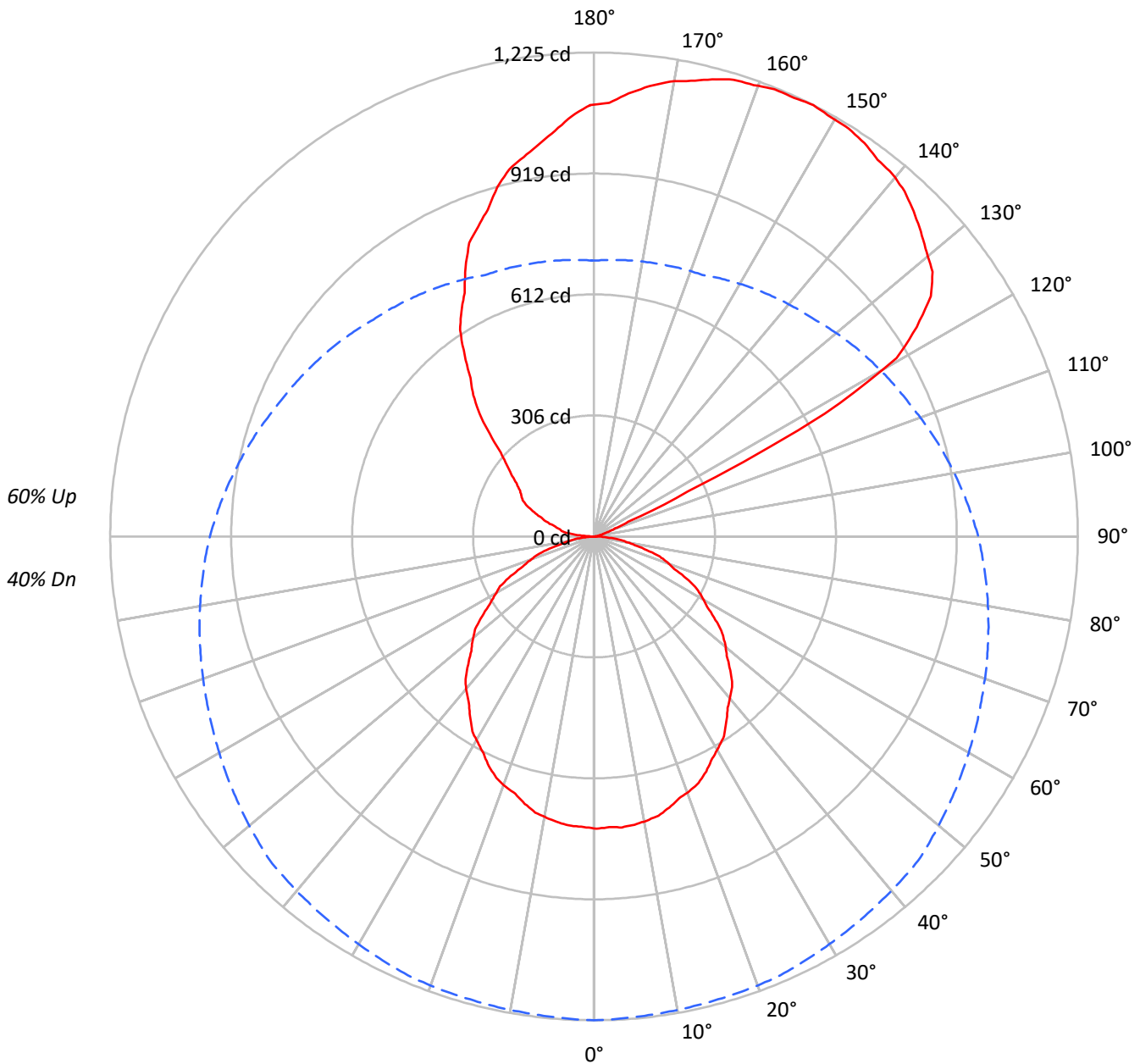
Lumens per Lamp: N/A
Luminaire Lumens: 5095.2 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 46.7
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	34
2	87	80	73	68	79	73	67	63	60	56	53	48	45	43	37	35	33	28
3	79	70	63	57	72	64	58	52	52	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	56	50	44	46	41	37	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	30	27	26	23	21	18
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	21	18	15
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16	14
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	20	17	15	12
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	18	15	13	11
10	45	33	26	21	41	31	24	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11946	11946	11946
5°	11992	12042	11909
10°	11998	12047	11847
15°	11908	12028	11687
20°	11838	11892	11541
25°	11749	11749	11405
30°	11574	11669	11158
35°	11375	11515	10914
40°	11198	11327	10705
45°	11038	11154	10387
50°	10814	10967	10150
55°	10514	10716	9799
60°	10188	10485	9368
65°	9838	10227	8905
70°	9323	9611	8167
75°	8634	8696	7367
80°	7662	7764	5960
85°	6039	5854	4150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.4
10°-20°	200.0	3.9
20°-30°	300.8	5.9
30°-40°	359.1	7.0
40°-50°	368.7	7.2
50°-60°	331.4	6.5
60°-70°	251.2	4.9
70°-80°	141.7	2.8
80°-90°	36.8	0.7
90°-100°	27.6	0.5
100°-110°	122.3	2.4
110°-120°	351.6	6.9
120°-130°	535.5	10.5
130°-140°	581.3	11.4
140°-150°	555.9	10.9
150°-160°	458.0	9.0
160°-170°	299.7	5.9
170°-180°	103.7	2.0
0°-30°	570.9	11.2
0°-40°	929.9	18.3
0°-60°	1630.0	32.0
0°-90°	2059.7	40.4
90°-120°	501.5	9.8
90°-150°	2174.2	42.7
90°-180°	3036.0	59.6
0°-180°	5095.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	740	740	740	740	740	
5°	740	739	743	738	735	70
15°	712	716	720	703	699	201
25°	660	662	660	650	640	303
35°	577	586	584	569	554	361
45°	483	490	488	470	455	373
55°	374	381	381	362	348	334
65°	258	265	268	244	233	254
75°	138	140	139	126	118	147
85°	33	36	32	26	22	38
90°	0	0	0	0	0	1
95°	4	6	19	43	42	6
105°	28	74	140	97	103	32
115°	264	693	354	166	186	364
125°	1047	912	565	280	238	919
135°	1154	1045	749	464	370	891
145°	1208	1125	894	660	564	757
155°	1220	1170	1000	828	755	565
165°	1195	1164	1073	964	917	339
175°	1125	1128	1105	1056	1031	109
180°	1092	1092	1092	1092	1092	



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CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	736.7	739.9	739.1	738.5	745.6	739.3	739.9	739.0	735.9
5°	739.9	737.9	738.9	738.0	743.0	737.0	737.9	734.8	734.8
7.5°	736.7	733.5	734.4	733.7	738.1	731.3	730.2	726.4	730.0
10°	731.8	727.8	728.7	728.9	734.8	724.9	723.6	720.6	722.6
12.5°	725.3	722.9	723.0	721.6	730.0	716.8	716.3	714.1	714.5
15°	712.4	715.4	715.5	708.6	719.6	703.7	703.3	703.2	699.2
17.5°	697.2	701.4	704.9	696.1	703.5	690.2	689.9	686.3	681.5
20°	689.0	690.0	695.1	687.1	692.1	681.1	680.9	671.7	671.7
22.5°	677.6	677.8	683.7	674.9	679.9	668.9	669.5	658.7	659.5
25°	659.5	658.5	661.6	655.5	659.5	649.6	650.4	639.2	640.2
27.5°	637.1	638.3	643.0	633.8	639.8	627.6	628.0	617.8	616.4
30°	620.8	622.8	630.0	620.0	625.9	613.0	611.7	601.4	598.5
32.5°	603.7	605.7	612.9	605.3	610.5	598.3	595.4	583.5	581.4
35°	577.1	579.1	586.2	582.2	584.2	572.3	568.9	556.7	553.7
37.5°	550.0	552.0	557.9	555.1	556.9	544.4	539.6	528.8	526.6
40°	531.3	533.3	538.4	536.4	537.4	526.4	520.1	510.9	507.9
42.5°	513.4	514.6	518.9	515.3	517.8	507.7	500.5	491.3	486.7
45°	483.4	483.4	489.6	485.6	488.5	478.6	470.2	459.9	454.9
47.5°	452.5	450.7	457.8	456.4	457.8	447.1	438.7	428.0	424.4
50°	430.5	429.5	436.6	437.6	436.6	426.7	418.3	406.1	404.1
52.5°	406.9	408.3	413.8	414.8	414.6	404.7	395.5	384.1	382.1
55°	373.5	375.5	380.7	381.6	380.7	371.7	362.3	350.1	348.1
57.5°	338.3	343.1	347.5	348.5	349.1	339.5	327.9	318.7	314.5
60°	315.5	319.5	324.7	325.7	324.7	316.7	304.3	295.0	290.1
62.5°	292.7	295.1	300.2	302.8	300.2	292.3	279.9	271.5	269.7
65°	257.5	259.5	264.6	266.7	267.7	256.7	244.3	237.1	233.1
67.5°	219.4	221.8	224.7	227.6	228.8	217.3	207.0	199.4	195.0
70°	197.5	197.5	199.5	201.6	203.6	193.6	184.2	175.0	173.0
72.5°	173.8	173.8	176.7	177.9	178.3	169.2	160.6	152.3	151.9
75°	138.4	138.4	140.5	141.4	139.4	133.5	126.2	119.1	118.1
77.5°	105.2	104.6	106.5	107.3	106.3	99.5	92.4	87.5	86.1
80°	82.4	83.4	84.5	84.5	83.5	77.5	71.2	67.1	64.1
82.5°	61.3	62.3	64.1	64.1	61.5	57.9	52.5	47.6	47.0
85°	32.6	32.6	35.6	34.5	31.6	29.6	26.5	22.4	22.4
87.5°	8.1	8.9	10.6	12.9	9.0	9.8	5.7	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°	0.8	0.8	1.6	2.5	4.1	15.2	17.1	15.5	14.7
95°	4.1	4.1	6.1	19.3	19.3	31.3	42.7	41.7	41.7
97.5°	9.2	10.2	14.2	58.9	44.0	42.8	61.1	67.2	67.8
100°	13.2	14.2	22.4	96.0	65.1	55.2	65.1	79.5	82.4
102.5°	18.1	19.9	35.4	151.5	92.0	66.1	76.5	86.8	89.8
105°	27.5	30.5	74.3	253.9	140.5	87.7	96.7	101.8	102.8
107.5°	41.3	52.5	203.4	357.1	199.3	116.1	121.3	124.8	126.0
110°	56.0	79.9	353.2	419.4	243.3	137.8	134.3	143.5	141.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.2	164.3	518.5	470.5	287.2	163.4	146.6	161.4	162.6
115°	263.6	452.7	693.1	543.3	354.2	207.9	165.9	180.3	186.3
117.5°	661.6	787.1	785.1	610.6	418.5	260.3	189.1	196.0	202.7
120°	889.5	908.5	831.5	656.1	460.0	297.8	208.6	205.7	211.7
122.5°	974.2	958.9	866.5	696.0	502.4	337.0	233.9	216.3	221.5
125°	1047.3	1017.4	911.9	753.0	564.9	394.7	279.9	239.2	238.2
127.5°	1087.8	1056.6	956.3	802.4	622.3	454.7	332.2	271.5	262.4
130°	1107.3	1078.5	987.2	832.7	660.5	495.3	370.5	299.9	286.0
132.5°	1131.0	1099.7	1009.2	863.8	697.2	533.6	408.7	334.1	317.8
135°	1154.2	1125.3	1045.3	904.3	749.1	589.9	464.1	390.4	369.5
137.5°	1174.9	1148.5	1078.2	936.2	795.9	645.2	522.7	450.9	425.4
140°	1188.8	1159.9	1092.1	960.7	824.4	680.1	561.8	490.1	470.2
142.5°	1193.7	1175.9	1106.7	981.4	856.2	713.5	600.9	526.8	508.5
145°	1208.1	1196.2	1124.7	1006.1	893.6	763.2	660.5	583.8	563.9
147.5°	1217.5	1199.6	1141.1	1032.8	930.3	807.8	714.7	641.0	622.5
150°	1218.3	1204.4	1154.2	1049.2	954.7	840.2	748.1	678.5	661.6
152.5°	1224.8	1207.7	1160.7	1063.2	972.6	867.7	781.5	716.7	698.2
155°	1220.3	1208.4	1170.5	1081.1	1000.5	903.0	828.5	771.1	755.2
157.5°	1220.3	1205.6	1171.7	1095.0	1027.4	941.8	872.4	819.5	807.5
160°	1212.2	1206.2	1172.5	1104.9	1041.2	963.6	901.8	853.6	837.6
162.5°	1208.9	1199.0	1174.1	1111.5	1053.4	981.4	927.0	881.3	869.4
165°	1194.9	1185.9	1164.3	1114.5	1072.7	1013.0	963.8	923.0	917.0
167.5°	1178.8	1171.8	1157.6	1119.4	1085.6	1036.8	995.4	962.4	954.3
170°	1167.4	1156.5	1151.1	1121.9	1092.1	1051.3	1015.7	986.0	977.1
172.5°	1147.9	1146.5	1142.2	1115.7	1097.8	1064.1	1034.5	1007.3	1001.5
175°	1124.7	1124.7	1127.7	1111.3	1105.3	1077.4	1056.5	1040.0	1031.0
177.5°	1097.8	1098.6	1105.1	1104.3	1105.1	1089.2	1083.1	1067.6	1066.0
180°	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1

(END OF REPORT)