

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: P522547

Luminaire Tested: **SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522547
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

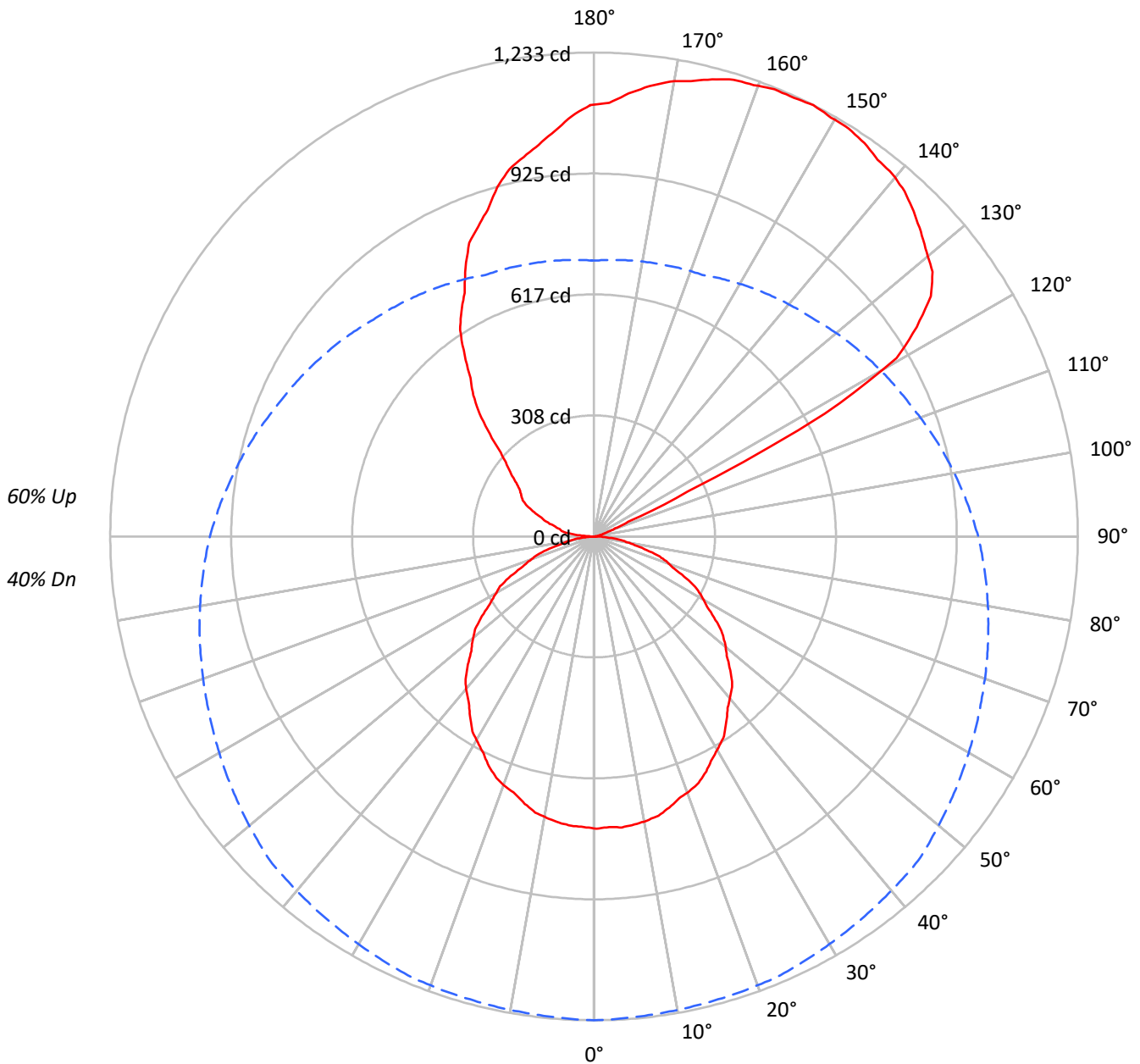
Lumens per Lamp: N/A
Luminaire Lumens: 5130.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 46.6
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°	12029	12029	12029
5°	12075	12123	11992
10°	12080	12131	11929
15°	11990	12110	11768
20°	11919	11972	11620
25°	11829	11829	11484
30°	11654	11749	11233
35°	11452	11594	10989
40°	11274	11405	10777
45°	11113	11232	10460
50°	10889	11042	10218
55°	10587	10787	9866
60°	10259	10556	9429
65°	9906	10296	8967
70°	9385	9673	8224
75°	8696	8759	7417
80°	7717	7810	6007
85°	6076	5891	4168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.4
10°-20°	201.3	3.9
20°-30°	302.9	5.9
30°-40°	361.5	7.0
40°-50°	371.2	7.2
50°-60°	333.6	6.5
60°-70°	252.9	4.9
70°-80°	142.7	2.8
80°-90°	37.0	0.7
90°-100°	27.8	0.5
100°-110°	123.2	2.4
110°-120°	354.0	6.9
120°-130°	539.2	10.5
130°-140°	585.3	11.4
140°-150°	559.7	10.9
150°-160°	461.1	9.0
160°-170°	301.7	5.9
170°-180°	104.4	2.0
0°-30°	574.8	11.2
0°-40°	936.3	18.3
0°-60°	1641.1	32.0
0°-90°	2073.7	40.4
90°-120°	504.9	9.8
90°-150°	2189.0	42.7
90°-180°	3056.0	59.6
0°-180°	5130.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	745	745	745	745	745	
5°	745	744	748	743	740	71
15°	717	720	724	708	704	202
25°	664	666	664	655	645	305
35°	581	590	588	573	558	364
45°	487	493	492	473	458	375
55°	376	383	383	365	350	336
65°	259	266	270	246	235	256
75°	139	141	140	127	119	148
85°	33	36	32	27	22	38
90°	0	0	0	0	0	1
95°	4	6	20	43	42	6
105°	28	75	141	97	104	32
115°	265	698	357	167	188	367
125°	1054	918	569	282	240	926
135°	1162	1052	754	467	372	897
145°	1216	1132	900	665	568	762
155°	1229	1178	1007	834	760	569
165°	1203	1172	1080	970	923	341
175°	1132	1135	1113	1064	1038	109
180°	1100	1100	1100	1100	1100	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	741.7	744.9	744.2	743.5	750.7	744.3	745.0	744.1	740.9
5°	745.0	743.0	743.9	743.0	748.0	742.0	742.9	739.9	739.9
7.5°	741.7	738.5	739.4	738.7	743.1	736.3	735.1	731.3	734.9
10°	736.8	732.8	733.7	733.8	739.9	729.8	728.6	725.6	727.6
12.5°	730.2	727.8	728.0	726.5	734.9	721.7	721.2	719.0	719.4
15°	717.3	720.3	720.4	713.5	724.5	708.4	708.1	708.0	704.0
17.5°	701.9	706.1	709.7	700.9	708.3	694.9	694.6	691.0	686.2
20°	693.7	694.7	699.9	691.8	696.8	685.8	685.5	676.3	676.3
22.5°	682.3	682.5	688.4	679.5	684.5	673.5	674.1	663.2	664.0
25°	664.0	663.0	666.1	660.0	664.0	654.0	654.8	643.5	644.6
27.5°	641.5	642.7	647.4	638.1	644.1	631.9	632.3	622.0	620.6
30°	625.1	627.1	634.3	624.2	630.2	617.2	615.9	605.5	602.5
32.5°	607.9	609.9	617.1	609.4	614.6	602.4	599.5	587.5	585.3
35°	581.0	583.0	590.2	586.2	588.2	576.2	572.8	560.5	557.5
37.5°	553.8	555.8	561.8	558.9	560.7	548.1	543.3	532.4	530.2
40°	534.9	536.9	542.1	540.1	541.1	530.0	523.6	514.3	511.3
42.5°	516.9	518.1	522.4	518.8	521.4	511.2	504.0	494.6	490.0
45°	486.7	486.7	492.9	488.9	491.9	481.8	473.4	463.1	458.1
47.5°	455.6	453.8	460.9	459.5	460.9	450.1	441.7	430.9	427.3
50°	433.5	432.5	439.6	440.6	439.6	429.6	421.2	408.8	406.8
52.5°	409.7	411.1	416.7	417.7	417.5	407.5	398.2	386.7	384.7
55°	376.1	378.1	383.2	384.2	383.2	374.2	364.8	352.5	350.5
57.5°	340.6	345.4	349.8	350.9	351.5	341.9	330.2	320.8	316.6
60°	317.7	321.7	326.9	327.9	326.9	318.9	306.4	297.1	292.0
62.5°	294.7	297.1	302.3	304.9	302.3	294.3	281.8	273.4	271.6
65°	259.3	261.3	266.4	268.5	269.5	258.5	245.9	238.7	234.7
67.5°	220.9	223.3	226.3	229.2	230.4	218.7	208.4	200.7	196.3
70°	198.8	198.8	200.8	202.9	204.9	194.9	185.5	176.2	174.2
72.5°	175.0	175.0	177.9	179.1	179.5	170.3	161.7	153.3	152.9
75°	139.4	139.4	141.4	142.4	140.4	134.4	127.1	119.9	118.9
77.5°	106.0	105.4	107.2	108.0	107.0	100.2	93.0	88.1	86.7
80°	83.0	84.0	85.1	85.0	84.0	78.0	71.7	67.6	64.6
82.5°	61.7	62.7	64.6	64.5	61.9	58.3	52.9	47.9	47.3
85°	32.8	32.8	35.9	34.8	31.8	29.8	26.6	22.5	22.5
87.5°	8.2	9.0	10.7	13.0	9.0	9.8	5.7	3.3	2.5
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	15.3	17.2	15.6	14.8
95°	4.1	4.1	6.1	19.5	19.5	31.5	43.0	42.0	42.0
97.5°	9.2	10.2	14.3	59.3	44.3	43.1	61.5	67.6	68.2
100°	13.3	14.3	22.5	96.6	65.6	55.6	65.6	80.0	83.0
102.5°	18.2	20.0	35.7	152.6	92.6	66.6	77.1	87.4	90.4
105°	27.7	30.7	74.8	255.6	141.4	88.3	97.3	102.5	103.5
107.5°	41.6	52.8	204.7	359.6	200.6	116.9	122.1	125.7	126.9
110°	56.4	80.4	355.6	422.3	244.9	138.7	135.3	144.4	142.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.9	165.4	522.0	473.7	289.2	164.5	147.6	162.5	163.8
115°	265.4	455.8	697.8	547.0	356.6	209.3	167.0	181.5	187.5
117.5°	666.1	792.5	790.5	614.7	421.4	262.1	190.4	197.3	204.1
120°	895.6	914.6	837.2	660.6	463.2	299.9	210.1	207.1	213.1
122.5°	980.9	965.4	872.4	700.8	505.8	339.3	235.5	217.8	223.0
125°	1054.4	1024.4	918.2	758.1	568.7	397.4	281.8	240.8	239.8
127.5°	1095.2	1063.8	962.8	807.9	626.5	457.8	334.5	273.4	264.2
130°	1114.9	1085.8	994.0	838.4	665.0	498.7	373.0	302.0	287.9
132.5°	1138.7	1107.2	1016.1	869.7	701.9	537.2	411.5	336.4	319.9
135°	1162.0	1133.0	1052.4	910.5	754.2	593.9	467.3	393.0	372.0
137.5°	1182.9	1156.3	1085.6	942.6	801.3	649.6	526.3	454.0	428.3
140°	1196.9	1167.8	1099.5	967.3	830.0	684.7	565.6	493.5	473.4
142.5°	1201.8	1184.0	1114.3	988.0	862.0	718.3	605.0	530.4	512.0
145°	1216.3	1204.3	1132.3	1012.9	899.7	768.5	665.0	587.7	567.7
147.5°	1225.8	1207.7	1148.9	1039.8	936.6	813.4	719.6	645.4	626.7
150°	1226.6	1212.6	1162.0	1056.4	961.2	846.0	753.2	683.1	666.1
152.5°	1233.2	1215.9	1168.6	1070.4	979.2	873.6	786.8	721.6	703.0
155°	1228.6	1216.6	1178.4	1088.5	1007.3	909.1	834.1	776.4	760.3
157.5°	1228.6	1213.8	1179.7	1102.5	1034.4	948.2	878.4	825.0	813.0
160°	1220.4	1214.4	1180.5	1112.4	1048.3	970.1	907.9	859.4	843.3
162.5°	1217.2	1207.1	1182.1	1119.1	1060.6	988.0	933.3	887.3	875.3
165°	1203.0	1194.0	1172.3	1122.1	1080.1	1019.9	970.4	929.3	923.3
167.5°	1186.8	1179.8	1165.5	1127.0	1093.0	1043.9	1002.2	969.0	960.8
170°	1175.4	1164.3	1159.0	1129.6	1099.5	1058.4	1022.7	992.8	983.7
172.5°	1155.7	1154.3	1149.9	1123.3	1105.3	1071.4	1041.5	1014.1	1008.3
175°	1132.3	1132.3	1135.4	1118.9	1112.8	1084.8	1063.7	1047.1	1038.0
177.5°	1105.3	1106.1	1112.6	1111.8	1112.6	1096.6	1090.5	1074.9	1073.3
180°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5

(END OF REPORT)