

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: P522542

Luminaire Tested: **SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522542
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-025D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 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: 4344.1 lumens
Efficiency: N/A
Efficacy: 109.7 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: Semi-Indirect

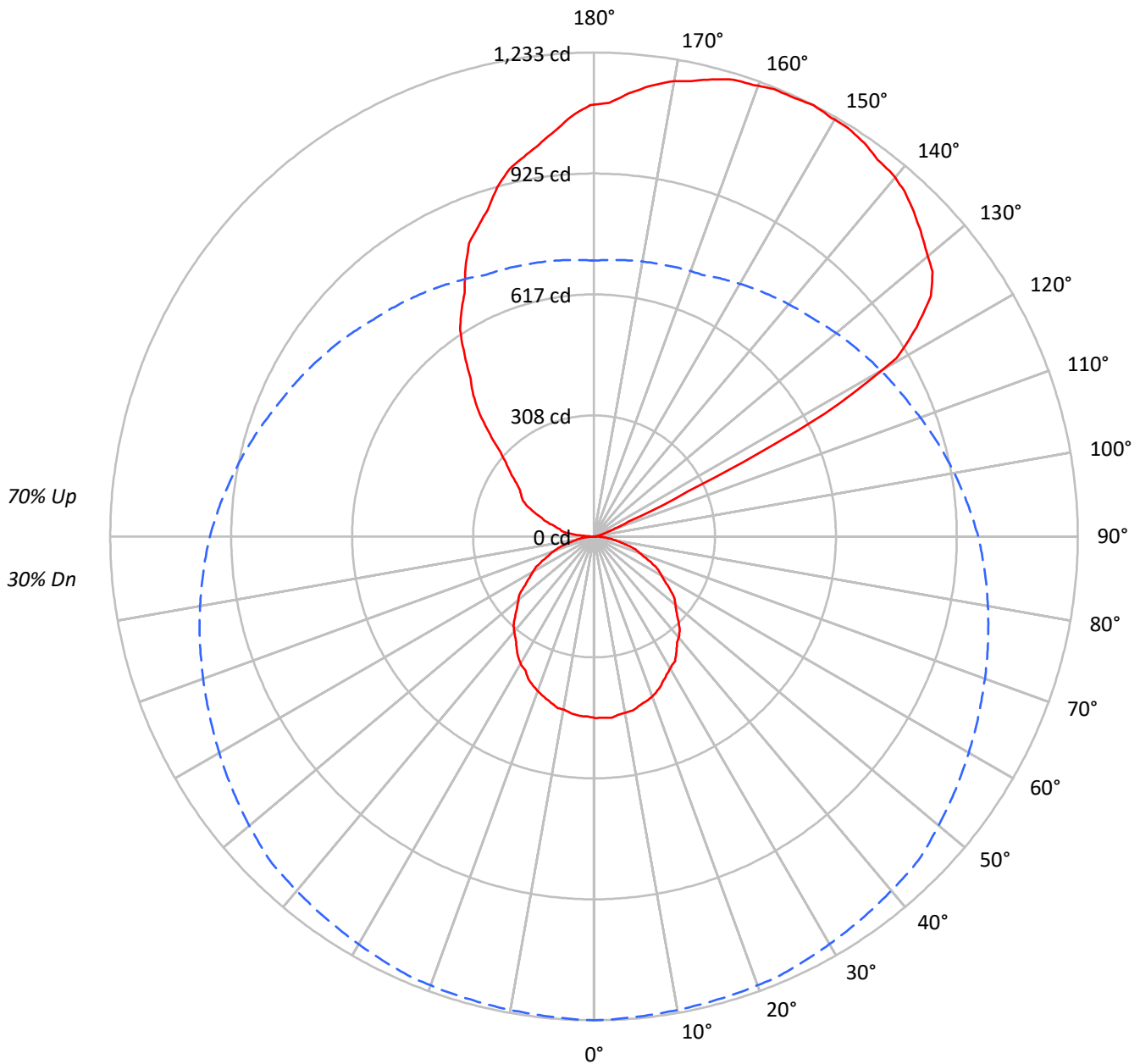
Input Watts (W): 39.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30				
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25				
2	85	78	72	67	76	70	65	60	55	52	49	41	39	37	29	28	26	21				
3	77	68	61	55	69	61	55	50	48	44	41	37	34	31	25	24	22	17				
4	70	60	52	47	63	54	48	42	43	38	34	32	29	27	23	21	19	15				
5	65	53	45	40	58	48	41	36	38	33	30	29	26	23	20	18	17	13				
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	15	11				
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	15	13	10				
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	15	13	11	9				
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8				
10	44	32	25	21	39	29	23	19	24	19	16	18	15	12	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7479	7479	7479
5°	7524	7556	7441
10°	7476	7492	7358
15°	7433	7485	7315
20°	7430	7448	7237
25°	7285	7375	7156
30°	7202	7278	7012
35°	7129	7171	6847
40°	7042	7042	6717
45°	6832	6973	6551
50°	6744	6872	6383
55°	6548	6722	6114
60°	6319	6520	5890
65°	6109	6304	5597
70°	5755	6047	5273
75°	5309	5496	4729
80°	4668	4863	3998
85°	3409	3798	2649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.0
10°-20°	125.1	2.9
20°-30°	188.0	4.3
30°-40°	224.3	5.2
40°-50°	230.5	5.3
50°-60°	206.8	4.8
60°-70°	156.6	3.6
70°-80°	89.4	2.1
80°-90°	23.4	0.5
90°-100°	27.8	0.6
100°-110°	123.2	2.8
110°-120°	354.0	8.1
120°-130°	539.2	12.4
130°-140°	585.3	13.5
140°-150°	559.7	12.9
150°-160°	461.1	10.6
160°-170°	301.7	6.9
170°-180°	104.4	2.4
0°-30°	356.9	8.2
0°-40°	581.2	13.4
0°-60°	1018.5	23.4
0°-90°	1287.9	29.6
90°-120°	504.9	11.6
90°-150°	2189.0	50.4
90°-180°	3056.0	70.3
0°-180°	4344.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	463	463	463	463	463	
5°	464	462	466	459	459	44
15°	445	448	448	444	438	126
25°	409	413	414	409	402	189
35°	362	364	364	356	347	226
45°	299	305	305	294	287	232
55°	233	238	239	226	217	208
65°	160	163	165	154	146	157
75°	85	88	88	81	76	90
85°	18	22	20	17	14	22
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°	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2	463.2
2.5°	462.4	463.2	464.8	462.4	465.6	462.4	463.2	461.5	459.1
5°	464.2	462.2	462.2	462.2	466.2	461.2	459.1	458.1	459.1
7.5°	458.5	458.9	458.7	458.4	462.8	454.9	458.1	455.0	455.4
10°	456.0	454.0	457.0	455.0	457.0	454.0	454.0	450.8	448.8
12.5°	453.5	452.3	453.7	450.2	456.2	448.4	447.4	446.8	447.2
15°	444.7	447.7	447.8	444.8	447.8	440.8	443.7	439.6	437.6
17.5°	439.8	436.8	438.2	435.8	439.2	433.4	433.0	428.8	429.4
20°	432.4	429.4	432.4	428.4	433.5	424.4	427.3	422.2	421.2
22.5°	422.6	422.0	425.9	422.6	423.6	418.6	418.3	412.3	411.3
25°	408.9	409.9	413.0	408.0	414.0	406.0	408.9	399.7	401.7
27.5°	397.0	397.2	400.7	398.2	399.4	393.2	393.5	385.7	384.3
30°	386.3	387.3	392.5	388.4	390.4	383.4	385.3	375.1	376.1
32.5°	378.9	376.7	381.0	377.0	380.6	373.6	373.8	366.0	364.6
35°	361.7	361.7	363.8	363.8	363.8	356.8	355.6	348.4	347.4
37.5°	343.9	343.1	350.0	344.8	347.2	341.4	339.2	332.2	331.0
40°	334.1	330.1	336.1	334.1	334.1	329.0	326.9	320.7	318.7
42.5°	320.1	319.3	323.8	322.6	325.0	316.8	314.6	307.6	306.4
45°	299.2	300.2	305.4	303.4	305.4	300.4	294.1	288.9	286.9
47.5°	281.6	280.0	284.9	284.7	286.7	279.1	276.3	268.5	268.1
50°	268.5	268.5	272.6	271.6	273.6	267.6	262.3	256.1	254.1
52.5°	255.4	253.8	258.6	258.4	258.8	253.6	248.4	243.0	241.8
55°	232.6	233.6	237.7	237.8	238.8	233.8	226.5	220.2	217.2
57.5°	211.3	210.7	214.6	215.8	215.8	210.8	204.3	199.2	198.0
60°	195.7	196.7	199.8	201.9	201.9	196.9	189.6	184.4	182.4
62.5°	181.0	181.2	185.1	186.3	187.9	182.1	175.6	170.5	168.5
65°	159.9	158.9	162.9	165.0	165.0	160.0	153.7	148.5	146.5
67.5°	135.9	137.3	140.6	141.8	142.8	136.8	130.8	127.5	126.5
70°	121.9	120.9	125.0	127.1	128.1	122.1	116.8	112.7	111.7
72.5°	107.2	107.0	110.3	112.3	112.5	106.5	102.1	98.7	96.1
75°	85.1	86.1	88.1	88.1	88.1	84.1	81.0	77.8	75.8
77.5°	63.3	64.3	66.2	68.0	67.0	63.4	60.3	57.1	55.3
80°	50.2	51.2	52.3	53.3	52.3	50.3	47.1	44.0	43.0
82.5°	37.1	37.3	40.0	40.1	39.1	37.1	34.8	31.8	31.6
85°	18.4	19.4	21.5	21.5	20.5	19.5	17.4	15.3	14.3
87.5°	4.1	4.9	6.6	8.2	6.6	6.6	4.9	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)