

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: P522539

Luminaire Tested: **SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522539
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4239.3 lumens
Efficiency: N/A
Efficacy: 106.8 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

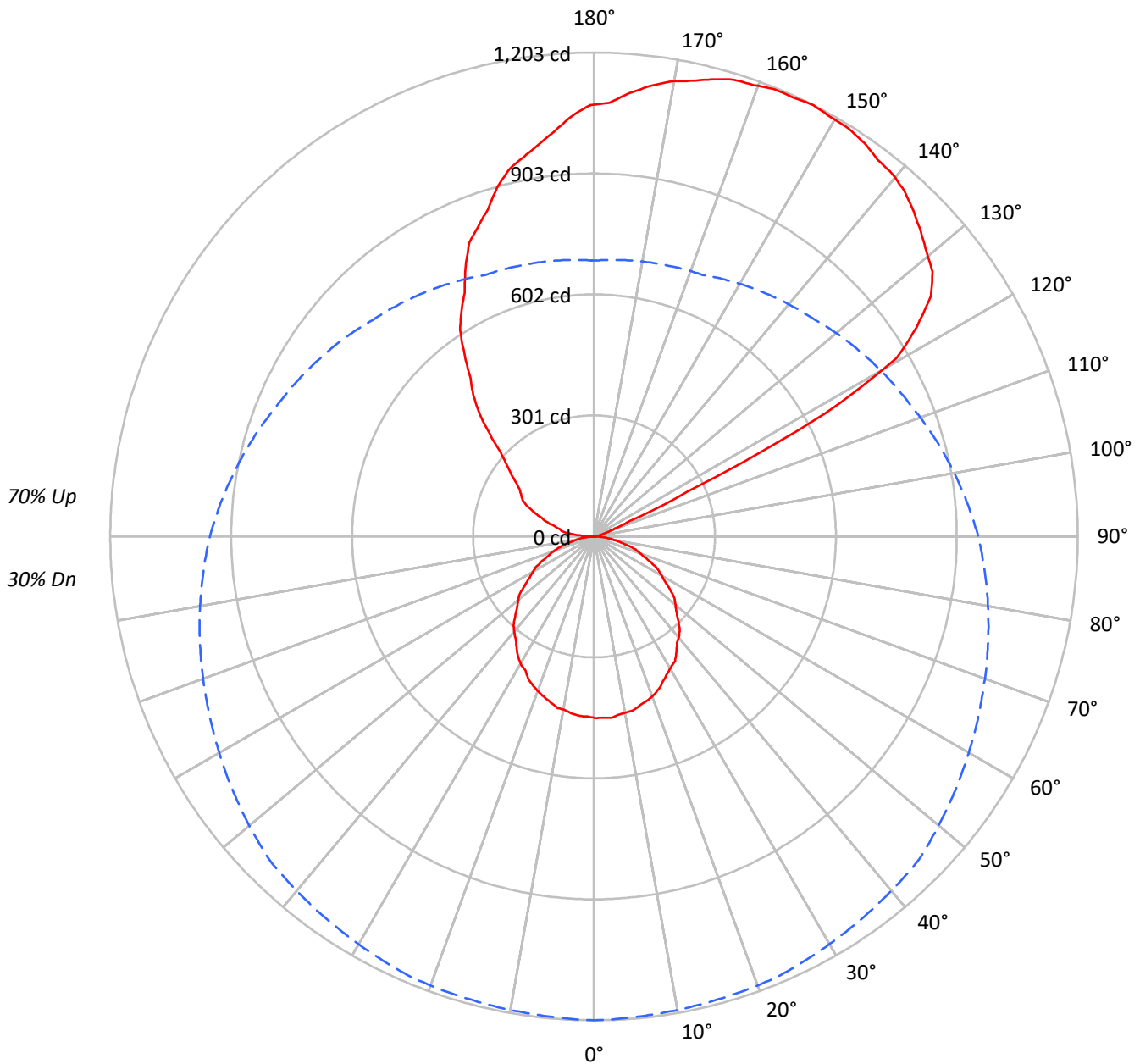
Input Watts (W): 39.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	7298	7298	7298
5°	7342	7374	7261
10°	7296	7312	7181
15°	7254	7305	7137
20°	7251	7268	7062
25°	7108	7197	6983
30°	7029	7103	6842
35°	6958	6997	6682
40°	6871	6871	6555
45°	6667	6804	6393
50°	6581	6707	6229
55°	6390	6559	5968
60°	6168	6361	5748
65°	5960	6151	5463
70°	5618	5901	5146
75°	5178	5365	4616
80°	4556	4742	3905
85°	3335	3705	2594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.0
10°-20°	122.1	2.9
20°-30°	183.4	4.3
30°-40°	218.9	5.2
40°-50°	224.9	5.3
50°-60°	201.8	4.8
60°-70°	152.8	3.6
70°-80°	87.3	2.1
80°-90°	22.9	0.5
90°-100°	27.1	0.6
100°-110°	120.2	2.8
110°-120°	345.4	8.1
120°-130°	526.2	12.4
130°-140°	571.1	13.5
140°-150°	546.2	12.9
150°-160°	449.9	10.6
160°-170°	294.4	6.9
170°-180°	101.9	2.4
0°-30°	348.2	8.2
0°-40°	567.2	13.4
0°-60°	993.9	23.4
0°-90°	1256.8	29.6
90°-120°	492.7	11.6
90°-150°	2136.2	50.4
90°-180°	2983.0	70.4
0°-180°	4239.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	452	452	452	452	452	
5°	453	451	455	448	448	43
15°	434	437	437	433	427	123
25°	399	403	404	399	392	184
35°	353	355	355	347	339	221
45°	292	298	298	287	280	226
55°	227	232	233	221	212	203
65°	156	159	161	150	143	153
75°	83	86	86	79	74	88
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	4	6	19	42	41	5
105°	27	73	138	95	101	31
115°	259	681	348	163	183	358
125°	1029	896	555	275	234	903
135°	1134	1027	736	456	363	876
145°	1187	1105	878	649	554	744
155°	1199	1150	983	814	742	555
165°	1174	1144	1054	947	901	333
175°	1105	1108	1086	1038	1013	107
180°	1073	1073	1073	1073	1073	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0	452.0
2.5°	451.2	452.0	453.6	451.3	454.4	451.3	452.0	450.3	448.0
5°	453.0	451.0	451.0	451.1	455.0	450.1	448.0	447.0	448.0
7.5°	447.4	447.8	447.6	447.3	451.6	444.0	447.0	444.0	444.4
10°	445.0	443.0	446.0	444.0	446.0	443.1	443.0	440.0	438.0
12.5°	442.6	441.4	442.8	439.3	445.2	437.6	436.6	436.0	436.4
15°	434.0	436.9	437.0	434.1	437.0	430.2	433.0	429.0	427.0
17.5°	429.2	426.3	427.6	425.3	428.6	422.9	422.6	418.4	419.0
20°	422.0	419.1	422.0	418.1	423.0	414.2	417.0	412.0	411.0
22.5°	412.4	411.8	415.6	412.4	413.4	408.5	408.2	402.4	401.4
25°	399.0	400.0	403.0	398.1	404.0	396.2	399.0	390.0	392.0
27.5°	387.4	387.6	391.0	388.6	389.8	383.7	384.0	376.4	375.0
30°	377.0	378.0	383.0	379.0	381.0	374.2	376.0	366.0	367.0
32.5°	369.8	367.6	371.8	367.9	371.4	364.6	364.8	357.2	355.8
35°	353.0	353.0	355.0	355.0	355.0	348.2	347.0	340.0	339.0
37.5°	335.6	334.8	341.6	336.5	338.8	333.1	331.0	324.2	323.0
40°	326.0	322.1	328.0	326.0	326.0	321.1	319.0	313.0	311.0
42.5°	312.4	311.6	316.0	314.9	317.2	309.2	307.0	300.2	299.0
45°	292.0	293.0	298.0	296.0	298.0	293.1	287.0	282.0	280.0
47.5°	274.8	273.2	278.0	277.8	279.8	272.4	269.6	262.0	261.6
50°	262.0	262.0	266.0	265.0	267.0	261.1	256.0	250.0	248.0
52.5°	249.2	247.6	252.4	252.2	252.6	247.5	242.4	237.2	236.0
55°	227.0	228.0	232.0	232.0	233.0	228.1	221.0	214.9	212.0
57.5°	206.2	205.6	209.4	210.6	210.6	205.7	199.4	194.4	193.2
60°	191.0	192.0	195.0	197.0	197.0	192.1	185.0	180.0	178.0
62.5°	176.6	176.8	180.6	181.8	183.4	177.7	171.4	166.4	164.4
65°	156.0	155.0	159.0	161.0	161.0	156.1	150.0	145.0	143.0
67.5°	132.6	134.0	137.2	138.4	139.4	133.5	127.6	124.4	123.4
70°	119.0	118.0	122.0	124.0	125.0	119.1	114.0	110.0	109.0
72.5°	104.6	104.4	107.6	109.6	109.8	103.9	99.6	96.3	93.8
75°	83.0	84.0	86.0	86.0	86.0	82.1	79.0	76.0	74.0
77.5°	61.8	62.8	64.6	66.4	65.4	61.9	58.8	55.8	54.0
80°	49.0	50.0	51.0	52.0	51.0	49.0	46.0	43.0	42.0
82.5°	36.2	36.4	39.0	39.2	38.2	36.2	34.0	31.0	30.8
85°	18.0	19.0	21.0	21.0	20.0	19.0	17.0	15.0	14.0
87.5°	4.0	4.8	6.4	8.0	6.4	6.4	4.8	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	2.4	4.0	15.0	16.8	15.2	14.4
95°	4.0	4.0	6.0	19.0	19.0	30.7	42.0	41.0	41.0
97.5°	9.0	10.0	14.0	57.9	43.2	42.0	60.0	66.0	66.6
100°	13.0	14.0	22.0	94.3	64.0	54.2	64.0	78.1	81.0
102.5°	17.8	19.6	34.8	148.9	90.4	65.0	75.2	85.3	88.2
105°	27.0	29.9	73.0	249.5	138.0	86.2	95.0	100.0	101.0
107.5°	40.6	51.6	199.8	350.9	195.8	114.1	119.2	122.6	123.8
110°	55.0	78.5	347.0	412.1	239.0	135.4	132.0	141.0	139.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	92.6	161.4	509.4	462.3	282.2	160.6	144.0	158.6	159.8
115°	259.0	444.8	681.0	533.8	348.0	204.3	163.0	177.1	183.0
117.5°	650.0	773.4	771.4	599.9	411.2	255.7	185.8	192.6	199.2
120°	874.0	892.6	817.0	644.6	452.0	292.6	205.0	202.1	208.0
122.5°	957.2	942.1	851.4	683.9	493.6	331.1	229.8	212.5	217.6
125°	1029.0	999.7	896.0	739.8	555.0	387.8	275.0	235.0	234.0
127.5°	1068.8	1038.1	939.6	788.4	611.4	446.7	326.4	266.8	257.8
130°	1088.0	1059.6	970.0	818.2	649.0	486.7	364.0	294.7	281.0
132.5°	1111.2	1080.5	991.6	848.7	685.0	524.3	401.6	328.2	312.2
135°	1134.0	1105.6	1027.0	888.5	736.0	579.6	456.0	383.5	363.0
137.5°	1154.4	1128.4	1059.4	919.9	782.0	634.0	513.6	443.0	418.0
140°	1168.0	1139.6	1073.0	944.0	810.0	668.2	552.0	481.6	462.0
142.5°	1172.8	1155.4	1087.4	964.2	841.2	701.0	590.4	517.6	499.6
145°	1187.0	1175.3	1105.0	988.5	878.0	749.9	649.0	573.6	554.0
147.5°	1196.2	1178.6	1121.2	1014.7	914.0	793.7	702.2	629.8	611.6
150°	1197.0	1183.3	1134.0	1030.9	938.0	825.6	735.0	666.6	650.0
152.5°	1203.4	1186.6	1140.4	1044.6	955.6	852.5	767.8	704.2	686.0
155°	1199.0	1187.3	1150.0	1062.2	983.0	887.2	814.0	757.6	742.0
157.5°	1199.0	1184.5	1151.2	1075.9	1009.4	925.3	857.2	805.1	793.4
160°	1191.0	1185.1	1152.0	1085.6	1023.0	946.7	886.0	838.6	823.0
162.5°	1187.8	1178.0	1153.6	1092.1	1035.0	964.2	910.8	865.9	854.2
165°	1174.0	1165.2	1144.0	1095.1	1054.0	995.3	947.0	906.9	901.0
167.5°	1158.2	1151.4	1137.4	1099.8	1066.6	1018.7	978.0	945.6	937.6
170°	1147.0	1136.2	1131.0	1102.3	1073.0	1032.9	998.0	968.8	960.0
172.5°	1127.8	1126.4	1122.2	1096.2	1078.6	1045.6	1016.4	989.7	984.0
175°	1105.0	1105.0	1108.0	1091.9	1086.0	1058.6	1038.0	1021.8	1013.0
177.5°	1078.6	1079.4	1085.8	1085.0	1085.8	1070.2	1064.2	1049.0	1047.4
180°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0

(END OF REPORT)