

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: P522544

Luminaire Tested: **SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522544
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5006.2 lumens
Efficiency: N/A
Efficacy: 107.2 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

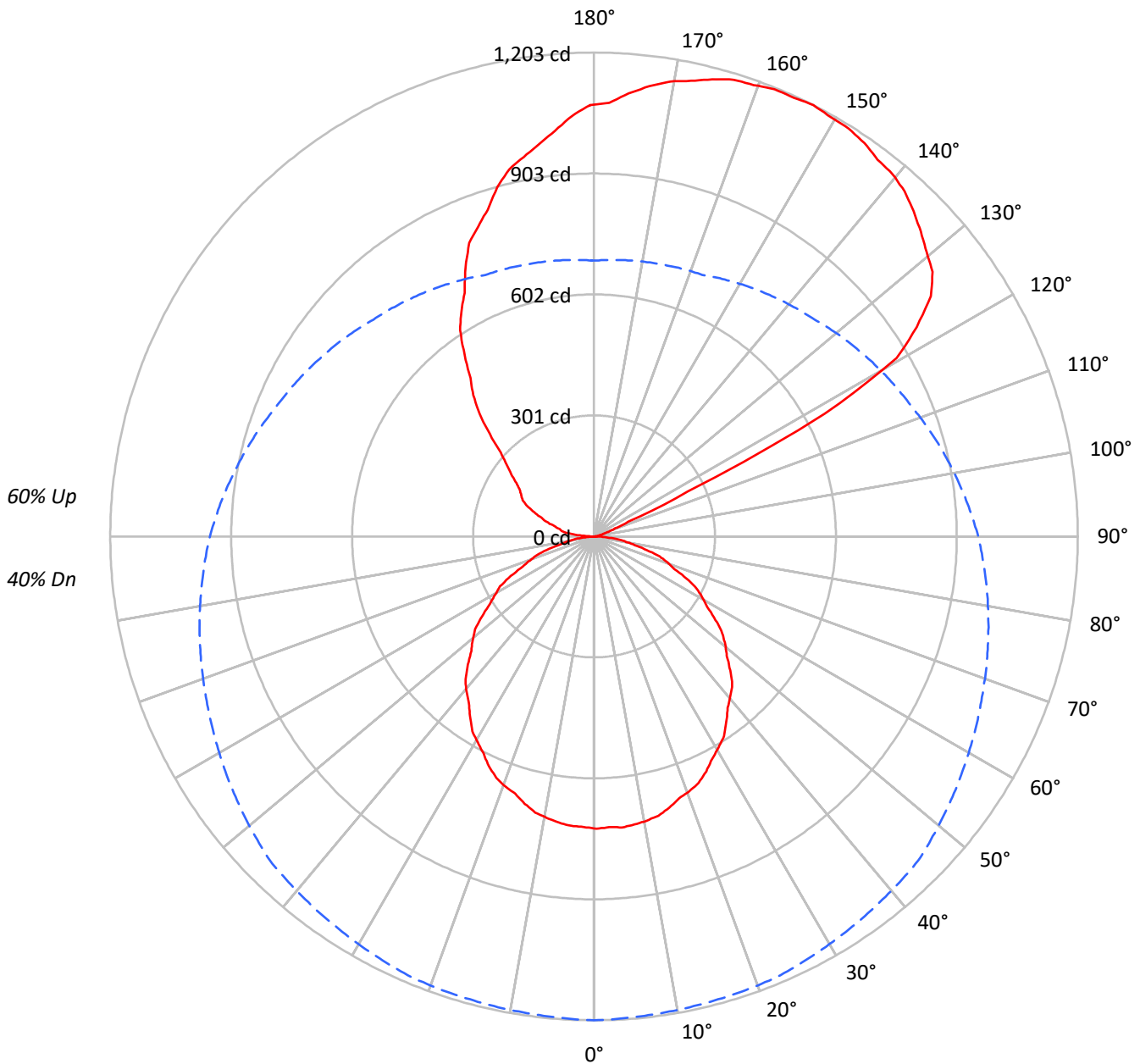
Input Watts (W): 46.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P522544

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° Vertical



TEST NUMBER: P522544

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3500K)

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°	11738	11738	11738
5°	11783	11831	11702
10°	11788	11837	11640
15°	11701	11818	11483
20°	11632	11684	11340
25°	11544	11544	11206
30°	11373	11466	10962
35°	11176	11314	10722
40°	11002	11129	10517
45°	10846	10960	10207
50°	10625	10776	9972
55°	10331	10528	9627
60°	10010	10301	9203
65°	9666	10048	8749
70°	9158	9441	8025
75°	8484	8546	7236
80°	7531	7624	5858
85°	5928	5743	4076



TEST NUMBER: P522544

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.4
10°-20°	196.5	3.9
20°-30°	295.6	5.9
30°-40°	352.8	7.0
40°-50°	362.2	7.2
50°-60°	325.6	6.5
60°-70°	246.8	4.9
70°-80°	139.2	2.8
80°-90°	36.1	0.7
90°-100°	27.1	0.5
100°-110°	120.2	2.4
110°-120°	345.4	6.9
120°-130°	526.2	10.5
130°-140°	571.1	11.4
140°-150°	546.2	10.9
150°-160°	449.9	9.0
160°-170°	294.4	5.9
170°-180°	101.9	2.0
0°-30°	560.9	11.2
0°-40°	913.7	18.3
0°-60°	1601.5	32.0
0°-90°	2023.7	40.4
90°-120°	492.7	9.8
90°-150°	2136.2	42.7
90°-180°	2983.0	59.6
0°-180°	5006.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	727	727	727	727	727	
5°	727	726	730	725	722	69
15°	700	703	707	691	687	197
25°	648	650	648	639	629	298
35°	567	576	574	559	544	355
45°	475	481	480	462	447	366
55°	367	374	374	356	342	328
65°	253	260	263	240	229	249
75°	136	138	137	124	116	144
85°	32	35	31	26	22	37
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	



TEST NUMBER: P522544

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0	727.0
2.5°	723.8	726.9	726.2	725.6	732.6	726.3	727.0	726.1	723.0
5°	727.0	725.0	726.0	725.1	730.0	724.1	725.0	722.0	722.0
7.5°	723.8	720.7	721.6	720.9	725.2	718.6	717.4	713.7	717.2
10°	719.0	715.1	716.0	716.1	722.0	712.2	711.0	708.0	710.0
12.5°	712.6	710.3	710.4	709.0	717.2	704.3	703.8	701.6	702.0
15°	700.0	702.9	703.0	696.2	707.0	691.4	691.0	690.9	687.0
17.5°	685.0	689.1	692.6	684.0	691.2	678.1	677.8	674.3	669.6
20°	677.0	678.0	683.0	675.1	680.0	669.2	669.0	660.0	660.0
22.5°	665.8	666.0	671.8	663.1	668.0	657.2	657.8	647.2	648.0
25°	648.0	647.0	650.0	644.1	648.0	638.2	639.0	628.0	629.0
27.5°	626.0	627.2	631.8	622.7	628.6	616.7	617.0	607.0	605.6
30°	610.0	612.0	619.0	609.1	615.0	602.3	601.0	590.9	588.0
32.5°	593.2	595.2	602.2	594.7	599.8	587.9	585.0	573.4	571.2
35°	567.0	569.0	576.0	572.0	574.0	562.3	559.0	546.9	544.0
37.5°	540.4	542.4	548.2	545.4	547.2	534.9	530.2	519.6	517.4
40°	522.0	524.0	529.0	527.0	528.0	517.2	511.0	501.9	499.0
42.5°	504.4	505.6	509.8	506.3	508.8	498.8	491.8	482.7	478.2
45°	475.0	475.0	481.0	477.1	480.0	470.2	462.0	451.9	447.0
47.5°	444.6	442.8	449.8	448.4	449.8	439.2	431.0	420.5	417.0
50°	423.0	422.0	429.0	430.0	429.0	419.2	411.0	399.0	397.0
52.5°	399.8	401.2	406.6	407.6	407.4	397.6	388.6	377.4	375.4
55°	367.0	369.0	374.0	375.0	374.0	365.2	356.0	344.0	342.0
57.5°	332.4	337.1	341.4	342.4	343.0	333.6	322.2	313.1	309.0
60°	310.0	313.9	319.0	320.0	319.0	311.2	299.0	289.9	285.0
62.5°	287.6	289.9	295.0	297.5	295.0	287.2	275.0	266.8	265.0
65°	253.0	255.0	260.0	262.0	263.0	252.2	240.0	232.9	229.0
67.5°	215.6	217.9	220.8	223.6	224.8	213.5	203.4	195.9	191.6
70°	194.0	194.0	196.0	198.0	200.0	190.2	181.0	172.0	170.0
72.5°	170.8	170.8	173.6	174.8	175.2	166.2	157.8	149.6	149.2
75°	136.0	136.0	138.0	139.0	137.0	131.1	124.0	117.0	116.0
77.5°	103.4	102.8	104.6	105.4	104.4	97.8	90.8	86.0	84.6
80°	81.0	82.0	83.0	83.0	82.0	76.1	70.0	65.9	63.0
82.5°	60.2	61.2	63.0	62.9	60.4	56.9	51.6	46.8	46.2
85°	32.0	32.0	35.0	33.9	31.0	29.0	26.0	22.0	22.0
87.5°	8.0	8.8	10.4	12.7	8.8	9.6	5.6	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



TEST NUMBER: P522544

CATALOG NUMBER: SQW-F-075U-050D-93050-1D-UNV-STD-W-4 (3500K)

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)