

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: P511789

Luminaire Tested: **SQW-F-075U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511789
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

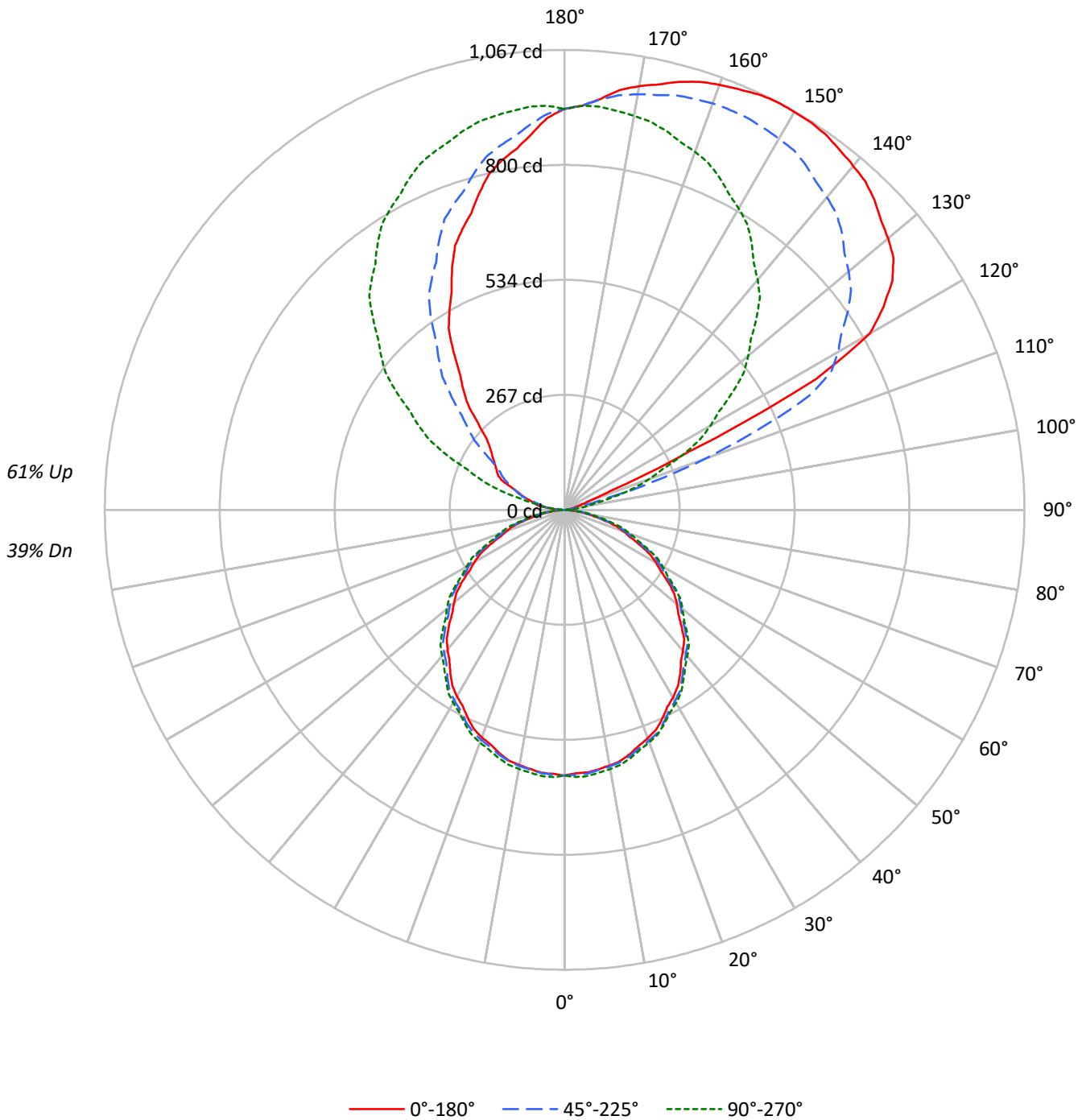
Lumens per Lamp: N/A
Luminaire Lumens: 4281.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 37.8
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: P511789
CATALOG NUMBER: SQW-F-075U-050D-935-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P511789

CATALOG NUMBER: SQW-F-075U-050D-935-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	77	77	77	61	61	61	46	46	46	39		
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33		
2	87	79	73	68	79	72	67	63	59	56	52	47	45	42	36	34	33	28		
3	79	70	63	57	72	64	57	52	52	48	44	42	38	36	32	30	28	23		
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	26	24	20		
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17		
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15		
7	56	44	36	31	51	40	34	29	34	28	24	27	23	20	21	18	16	13		
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	16	14	12		
9	48	36	29	24	44	33	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	14	16	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19908	19908	19908
5°	19819	20094	19848
10°	19746	20022	19717
15°	19594	19905	19537
20°	19361	19735	19302
25°	19080	19500	18962
30°	18741	19278	18618
35°	18418	18950	18220
40°	17987	18666	17810
45°	17523	18331	17331
50°	17076	17920	16819
55°	16524	17475	16287
60°	15797	16940	15578
65°	14755	16107	14564
70°	13615	15210	13454
75°	11990	13787	11890
80°	9726	11604	9875
85°	5632	7818	6558



TEST NUMBER: P511789

CATALOG NUMBER: SQW-F-075U-050D-935-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	1.4
10°-20°	165.9	3.9
20°-30°	248.6	5.8
30°-40°	295.4	6.9
40°-50°	302.3	7.1
50°-60°	269.6	6.3
60°-70°	200.0	4.7
70°-80°	109.5	2.6
80°-90°	26.4	0.6
90°-100°	23.4	0.5
100°-110°	108.7	2.5
110°-120°	317.0	7.4
120°-130°	460.7	10.8
130°-140°	492.9	11.5
140°-150°	471.6	11.0
150°-160°	388.8	9.1
160°-170°	254.3	5.9
170°-180°	88.2	2.1
0°-30°	472.7	11.0
0°-40°	768.0	17.9
0°-60°	1340.0	31.3
0°-90°	1676.0	39.1
90°-120°	449.2	10.5
90°-150°	1874.4	43.8
90°-180°	2606.0	60.9
0°-180°	4281.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	616	616	616	616	616	
5°	611	614	620	613	612	58
15°	586	590	595	588	584	165
25°	536	544	547	542	532	246
35°	467	476	481	474	462	292
45°	384	396	401	392	380	296
55°	294	304	310	303	289	262
65°	193	202	211	202	191	191
75°	96	103	110	103	95	102
85°	15	20	21	22	18	21
90°	2	2	1	4	7	1
95°	7	9	18	29	26	8
105°	29	84	121	77	83	35
115°	319	628	302	144	159	374
125°	928	802	476	220	201	821
135°	1016	910	629	371	284	784
145°	1060	976	756	539	450	664
155°	1064	1003	850	689	618	491
165°	1028	996	910	809	762	292
175°	957	955	939	898	876	93
180°	930	930	930	930	930	



TEST NUMBER: P511789

CATALOG NUMBER: SQW-F-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5	616.5
2.5°	611.8	614.4	615.1	614.6	620.5	615.3	615.1	614.4	613.1
5°	611.4	612.3	614.0	612.4	619.9	612.4	613.1	611.5	612.3
7.5°	606.9	607.7	608.7	607.9	614.6	607.9	608.4	606.7	606.7
10°	602.2	603.0	604.7	603.2	610.6	603.2	603.0	601.3	601.3
12.5°	596.8	597.6	599.3	597.8	605.2	597.8	597.6	595.3	595.9
15°	586.1	588.6	590.3	588.0	595.4	588.0	587.8	586.1	584.4
17.5°	573.5	576.0	578.9	576.3	583.1	575.5	576.3	572.6	571.1
20°	563.4	565.8	570.1	566.9	574.3	566.1	567.6	562.5	561.7
22.5°	552.6	554.4	560.7	557.4	564.2	556.6	557.5	551.0	550.2
25°	535.5	537.2	544.0	541.6	547.3	539.9	542.3	533.0	532.2
27.5°	516.1	518.6	524.7	523.2	529.8	521.6	523.9	514.2	512.8
30°	502.6	505.1	511.9	510.4	517.0	508.7	511.1	500.1	499.3
32.5°	487.8	491.6	497.7	497.5	502.8	495.2	496.2	485.9	484.4
35°	467.2	469.7	475.7	475.8	480.7	474.1	474.0	463.8	462.2
37.5°	443.6	446.9	453.2	454.2	459.0	451.7	450.5	441.4	438.7
40°	426.7	430.0	437.7	438.6	442.8	436.2	434.3	425.8	422.5
42.5°	410.5	413.8	421.5	422.4	426.6	420.6	417.5	409.6	405.0
45°	383.7	387.9	395.5	398.1	401.4	395.7	392.2	382.8	379.5
47.5°	358.1	361.4	369.2	373.5	375.0	371.0	366.5	356.5	353.0
50°	339.9	343.2	351.7	355.9	356.7	353.4	348.3	338.9	334.8
52.5°	321.0	324.3	333.5	337.7	338.5	335.2	330.1	320.7	316.6
55°	293.5	296.8	303.6	310.4	310.4	308.7	302.8	292.6	289.3
57.5°	264.1	267.3	275.8	281.7	281.8	279.5	273.4	264.1	260.8
60°	244.6	247.0	255.5	261.5	262.3	260.6	253.9	244.5	241.2
62.5°	223.0	226.1	234.6	241.2	242.7	240.4	232.9	224.2	219.6
65°	193.1	194.8	202.4	209.2	210.8	208.4	201.6	193.1	190.6
67.5°	163.8	164.8	172.0	178.8	180.6	178.0	171.2	165.4	161.4
70°	144.2	145.9	151.8	158.6	161.1	157.8	151.0	145.8	142.5
72.5°	124.6	126.3	132.2	138.4	140.8	138.2	132.1	126.9	123.6
75°	96.1	97.0	102.9	108.8	110.5	108.0	102.9	98.6	95.3
77.5°	69.2	70.0	76.2	79.8	81.3	79.8	75.7	71.6	69.3
80°	52.3	53.1	57.3	61.6	62.4	61.6	58.2	54.8	53.1
82.5°	36.1	36.9	41.8	44.7	44.9	45.4	42.7	39.9	37.6
85°	15.2	16.0	20.2	22.7	21.1	23.6	21.9	19.4	17.7
87.5°	2.4	2.4	4.4	6.2	6.2	7.1	6.1	5.9	4.8
90°	1.7	1.7	1.7	0.9	0.9	1.7	3.5	6.1	7.0
92.5°	3.1	3.8	3.8	4.4	5.1	10.0	7.0	8.2	8.4
95°	7.0	7.0	8.7	20.9	17.5	26.0	28.8	27.1	26.2
97.5°	11.5	12.4	17.0	54.9	39.3	34.9	47.5	50.8	47.7
100°	15.7	16.6	25.3	86.7	56.8	44.8	52.4	62.1	63.8
102.5°	20.6	22.2	39.3	133.7	79.9	57.0	60.1	69.1	71.5
105°	28.8	33.1	83.9	221.5	120.6	75.3	76.9	79.6	83.0
107.5°	44.8	60.1	213.1	314.4	170.8	98.8	102.3	99.8	100.0
110°	62.9	95.4	348.8	367.8	207.2	117.4	116.3	114.4	111.9



TEST NUMBER: P511789

CATALOG NUMBER: SQW-F-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	114.0	199.8	485.8	415.2	245.6	137.4	127.4	135.4	130.1
115°	319.0	484.0	627.6	480.2	301.6	171.6	144.2	155.7	159.1
117.5°	658.0	732.7	698.2	537.9	355.0	211.6	160.3	168.5	174.1
120°	818.1	815.6	732.5	573.6	390.7	241.1	172.2	177.5	181.8
122.5°	876.9	852.4	761.1	605.8	425.0	272.7	188.3	185.2	190.2
125°	928.3	894.9	802.4	649.8	475.5	320.8	220.3	197.6	201.0
127.5°	961.6	925.1	837.7	690.2	524.4	371.8	262.6	217.2	213.1
130°	979.8	943.9	860.1	714.9	555.9	404.6	291.9	236.6	226.4
132.5°	995.2	961.4	881.1	738.8	586.7	438.1	323.4	261.0	246.0
135°	1016.5	984.1	909.9	773.8	629.3	486.6	370.6	305.4	284.1
137.5°	1032.8	1003.2	932.6	805.1	670.8	534.4	420.1	354.5	332.7
140°	1041.9	1013.7	946.6	824.8	696.6	565.0	453.6	386.7	366.2
142.5°	1050.3	1022.8	958.5	842.5	721.1	594.3	487.9	419.6	399.1
145°	1060.2	1033.7	976.3	868.0	756.1	638.1	539.3	469.8	450.1
147.5°	1065.0	1040.5	989.1	890.8	787.4	678.6	587.0	520.3	500.5
150°	1066.4	1043.3	994.7	904.2	807.6	705.1	617.1	554.6	534.1
152.5°	1067.1	1043.3	998.9	915.6	825.8	728.7	646.5	587.5	568.3
155°	1063.7	1042.4	1003.4	929.1	850.5	762.4	688.8	635.1	618.0
157.5°	1056.0	1040.3	1004.1	940.5	871.1	794.0	729.0	679.8	663.8
160°	1049.8	1036.1	1003.4	946.9	883.7	812.7	753.4	708.5	693.1
162.5°	1041.4	1027.7	999.9	949.9	894.9	830.1	776.5	733.8	721.1
165°	1027.9	1015.1	995.6	954.3	909.9	856.1	809.4	772.4	762.2
167.5°	1010.8	1002.7	985.9	956.1	922.0	878.4	839.5	809.4	800.6
170°	998.2	992.2	979.0	955.6	928.3	891.5	858.3	831.1	825.1
172.5°	982.1	978.9	969.9	953.0	933.2	903.2	875.1	851.4	845.4
175°	957.1	958.8	955.4	949.0	938.7	918.2	898.5	881.8	875.8
177.5°	938.4	938.4	939.1	939.8	938.4	929.5	919.5	909.7	910.4
180°	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0	930.0

(END OF REPORT)