

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: P511788

Luminaire Tested: **SQW-F-075U-050D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511788
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-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

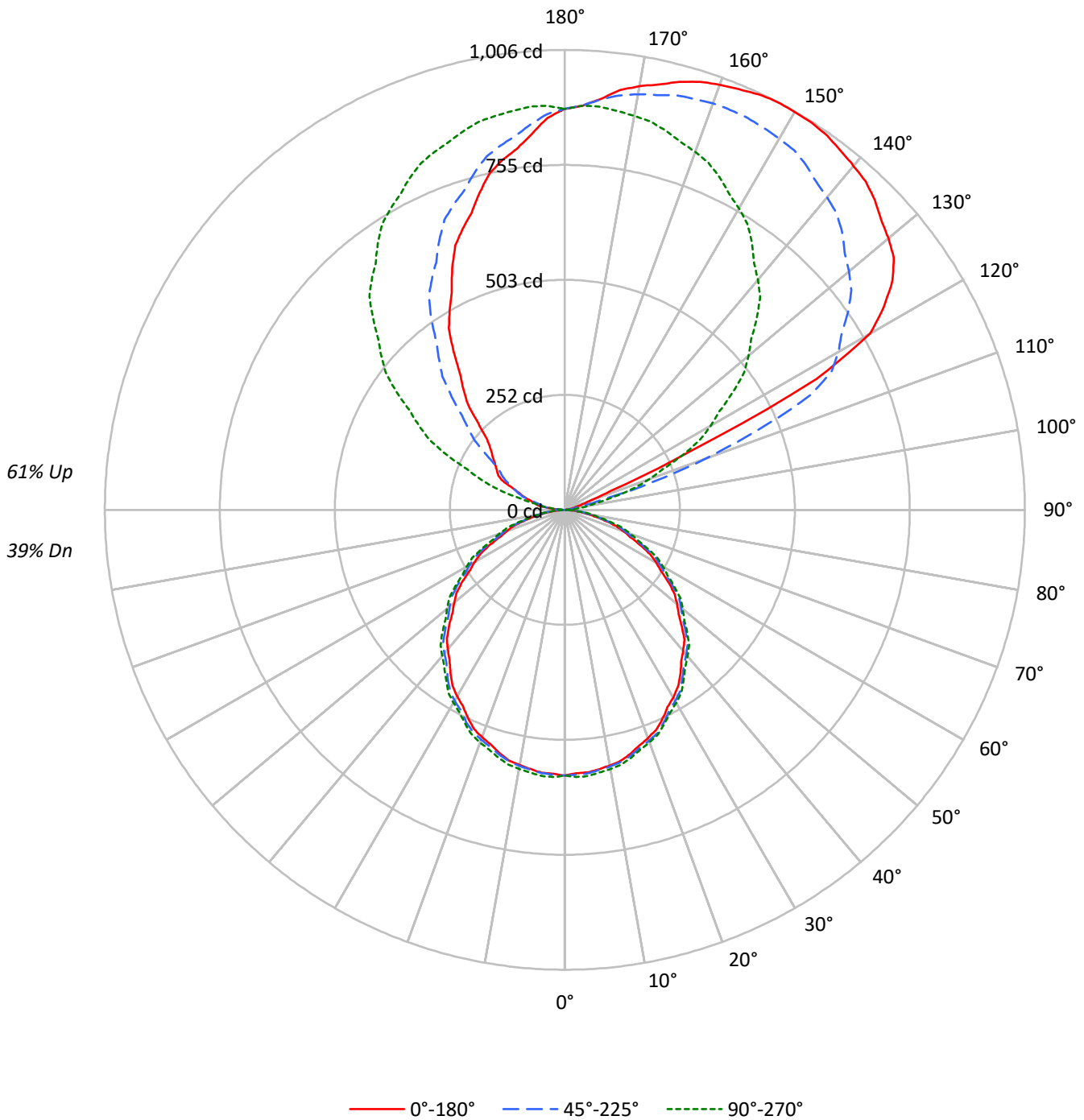
Lumens per Lamp: N/A
Luminaire Lumens: 4036.7 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

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



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Luminous Intensity Polar Plot





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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	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°	18768	18768	18768
5°	18684	18943	18710
10°	18615	18874	18589
15°	18474	18765	18420
20°	18251	18608	18196
25°	17990	18385	17876
30°	17671	18174	17551
35°	17365	17866	17176
40°	16959	17595	16790
45°	16523	17285	16340
50°	16096	16895	15860
55°	15578	16473	15353
60°	14893	15972	14686
65°	13914	15190	13731
70°	12840	14342	12689
75°	11304	13001	11204
80°	9168	10935	9317
85°	5298	7373	6187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	1.4
10°-20°	156.4	3.9
20°-30°	234.3	5.8
30°-40°	278.5	6.9
40°-50°	285.0	7.1
50°-60°	254.2	6.3
60°-70°	188.6	4.7
70°-80°	103.3	2.6
80°-90°	24.9	0.6
90°-100°	22.1	0.5
100°-110°	102.5	2.5
110°-120°	298.9	7.4
120°-130°	434.3	10.8
130°-140°	464.7	11.5
140°-150°	444.6	11.0
150°-160°	366.6	9.1
160°-170°	239.8	5.9
170°-180°	83.1	2.1
0°-30°	445.6	11.0
0°-40°	724.1	17.9
0°-60°	1263.3	31.3
0°-90°	1580.1	39.1
90°-120°	423.5	10.5
90°-150°	1767.2	43.8
90°-180°	2457.0	60.9
0°-180°	4036.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	581	581	581	581	581	
5°	576	579	584	578	577	55
15°	553	557	561	554	551	156
25°	505	513	516	511	502	232
35°	440	448	453	447	436	275
45°	362	373	378	370	358	279
55°	277	286	293	285	273	247
65°	182	191	199	190	180	181
75°	91	97	104	97	90	96
85°	14	19	20	21	17	20
90°	2	2	1	3	7	1
95°	7	8	16	27	25	7
105°	27	79	114	72	78	33
115°	301	592	284	136	150	353
125°	875	756	448	208	190	774
135°	958	858	593	349	268	740
145°	1000	920	713	508	424	626
155°	1003	946	802	649	583	463
165°	969	939	858	763	719	275
175°	902	901	885	847	826	87
180°	877	877	877	877	877	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2
2.5°	576.8	579.2	579.9	579.4	585.0	580.1	579.9	579.3	578.0
5°	576.4	577.2	578.8	577.4	584.4	577.4	578.0	576.5	577.2
7.5°	572.2	572.9	573.9	573.1	579.5	573.1	573.6	572.0	572.0
10°	567.7	568.5	570.1	568.7	575.6	568.7	568.5	566.9	566.9
12.5°	562.6	563.4	565.0	563.6	570.6	563.6	563.4	561.2	561.8
15°	552.6	554.9	556.6	554.3	561.3	554.3	554.2	552.6	551.0
17.5°	540.7	543.0	545.8	543.4	549.7	542.6	543.4	539.8	538.4
20°	531.1	533.5	537.5	534.5	541.5	533.7	535.1	530.3	529.5
22.5°	520.9	522.7	528.6	525.5	531.9	524.8	525.6	519.5	518.7
25°	504.9	506.4	512.8	510.6	516.0	509.0	511.2	502.5	501.7
27.5°	486.6	488.9	494.7	493.3	499.5	491.7	493.9	484.8	483.4
30°	473.9	476.2	482.6	481.2	487.4	479.6	481.8	471.5	470.7
32.5°	459.9	463.5	469.3	469.1	474.0	466.9	467.8	458.1	456.7
35°	440.5	442.8	448.4	448.5	453.2	447.0	446.8	437.3	435.7
37.5°	418.2	421.3	427.3	428.2	432.7	425.8	424.7	416.1	413.6
40°	402.3	405.4	412.7	413.5	417.4	411.2	409.5	401.5	398.3
42.5°	387.1	390.2	397.4	398.3	402.2	396.6	393.6	386.2	381.8
45°	361.8	365.7	372.9	375.4	378.5	373.0	369.7	360.9	357.8
47.5°	337.6	340.7	348.1	352.1	353.5	349.8	345.5	336.1	332.8
50°	320.4	323.5	331.6	335.5	336.3	333.2	328.4	319.5	315.7
52.5°	302.6	305.7	314.4	318.4	319.2	316.0	311.2	302.4	298.5
55°	276.7	279.8	286.2	292.6	292.6	291.0	285.4	275.8	272.7
57.5°	249.0	252.0	260.0	265.6	265.7	263.5	257.8	249.0	245.8
60°	230.6	232.9	240.9	246.5	247.3	245.7	239.3	230.5	227.4
62.5°	210.2	213.2	221.2	227.4	228.8	226.7	219.6	211.4	207.0
65°	182.1	183.6	190.8	197.2	198.8	196.4	190.0	182.0	179.7
67.5°	154.4	155.3	162.2	168.6	170.3	167.8	161.4	155.9	152.2
70°	136.0	137.5	143.1	149.5	151.9	148.8	142.3	137.5	134.4
72.5°	117.5	119.1	124.7	130.4	132.8	130.3	124.5	119.7	116.6
75°	90.6	91.4	97.0	102.6	104.2	101.8	97.0	93.0	89.8
77.5°	65.2	66.0	71.9	75.2	76.6	75.2	71.4	67.5	65.4
80°	49.3	50.1	54.1	58.1	58.8	58.1	54.9	51.6	50.1
82.5°	34.0	34.8	39.4	42.1	42.3	42.8	40.2	37.6	35.5
85°	14.3	15.1	19.1	21.4	19.9	22.2	20.7	18.3	16.7
87.5°	2.2	2.2	4.1	5.9	5.9	6.7	5.7	5.6	4.5
90°	1.6	1.6	1.6	0.8	0.8	1.6	3.3	5.8	6.6
92.5°	3.0	3.6	3.6	4.1	4.8	9.5	6.6	7.7	7.9
95°	6.6	6.6	8.2	19.7	16.5	24.5	27.2	25.5	24.7
97.5°	10.9	11.7	16.0	51.7	37.1	32.9	44.8	47.9	45.0
100°	14.8	15.6	23.9	81.8	53.6	42.3	49.4	58.5	60.2
102.5°	19.4	20.9	37.1	126.1	75.3	53.7	56.7	65.2	67.4
105°	27.2	31.2	79.1	208.8	113.7	71.0	72.5	75.1	78.3
107.5°	42.2	56.7	200.9	296.4	161.0	93.2	96.4	94.1	94.3
110°	59.3	89.9	328.8	346.8	195.3	110.7	109.6	107.9	105.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	107.5	188.4	458.0	391.4	231.6	129.6	120.1	127.6	122.6
115°	300.8	456.3	591.7	452.7	284.3	161.8	136.0	146.8	150.0
117.5°	620.3	690.8	658.2	507.2	334.7	199.5	151.1	158.8	164.2
120°	771.3	768.9	690.6	540.8	368.3	227.3	162.3	167.4	171.4
122.5°	826.7	803.6	717.6	571.1	400.7	257.1	177.5	174.6	179.3
125°	875.1	843.7	756.5	612.7	448.3	302.4	207.7	186.3	189.5
127.5°	906.6	872.1	789.8	650.7	494.4	350.5	247.5	204.8	200.9
130°	923.8	889.9	810.9	674.0	524.1	381.5	275.2	223.1	213.4
132.5°	938.3	906.4	830.6	696.5	553.1	413.1	304.9	246.1	231.9
135°	958.4	927.7	857.8	729.5	593.3	458.8	349.4	288.0	267.8
137.5°	973.7	945.8	879.3	759.0	632.4	503.8	396.0	334.3	313.6
140°	982.3	955.7	892.4	777.6	656.8	532.7	427.7	364.6	345.3
142.5°	990.2	964.2	903.6	794.3	679.8	560.3	460.0	395.6	376.3
145°	999.6	974.6	920.5	818.4	712.8	601.6	508.4	442.9	424.4
147.5°	1004.0	981.0	932.5	839.8	742.3	639.8	553.4	490.5	471.8
150°	1005.3	983.6	937.8	852.5	761.4	664.7	581.8	522.8	503.5
152.5°	1006.0	983.6	941.7	863.2	778.6	687.0	609.5	553.8	535.8
155°	1002.9	982.7	946.0	875.9	801.8	718.8	649.3	598.7	582.6
157.5°	995.6	980.8	946.7	886.7	821.2	748.6	687.3	640.9	625.8
160°	989.7	976.8	946.0	892.7	833.1	766.2	710.3	668.0	653.5
162.5°	981.8	968.9	942.7	895.5	843.7	782.6	732.1	691.8	679.8
165°	969.1	957.0	938.6	899.7	857.8	807.1	763.1	728.2	718.6
167.5°	952.9	945.4	929.5	901.4	869.2	828.1	791.4	763.0	754.8
170°	941.1	935.4	922.9	900.9	875.1	840.5	809.2	783.5	777.9
172.5°	925.9	922.8	914.4	898.4	879.8	851.6	825.0	802.7	797.0
175°	902.3	903.9	900.7	894.7	885.0	865.7	847.1	831.3	825.7
177.5°	884.7	884.7	885.4	886.0	884.7	876.3	866.9	857.7	858.3
180°	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8

(END OF REPORT)