

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: P511795

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

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511795
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-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

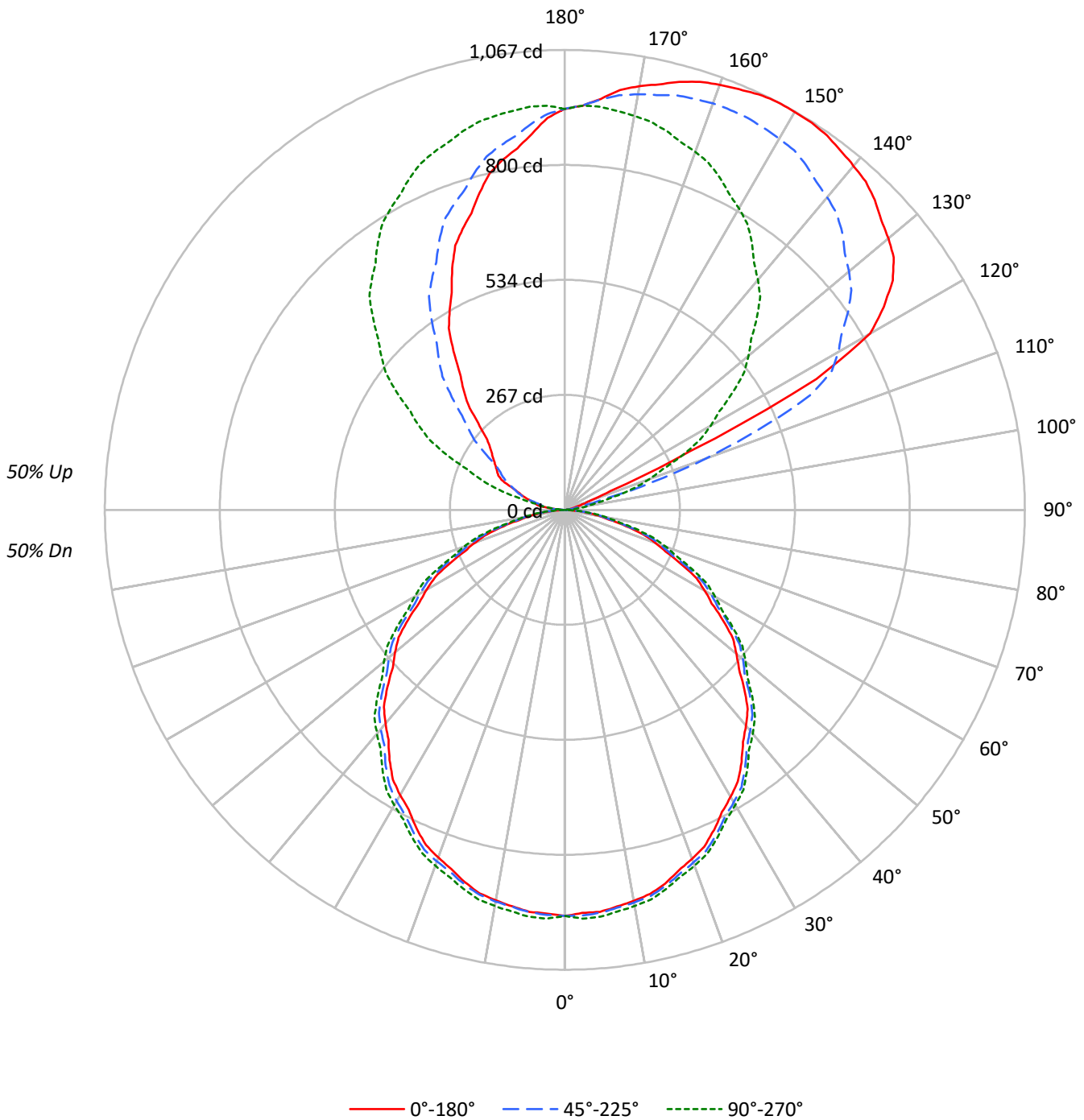
Lumens per Lamp: N/A
Luminaire Lumens: 5173.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 47.8
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30419	30419	30419
5°	30344	30726	30344
10°	30196	30613	30170
15°	30028	30422	29914
20°	29619	30199	29502
25°	29178	29869	29028
30°	28678	29498	28491
35°	28158	29057	27926
40°	27552	28585	27269
45°	26885	28076	26574
50°	26098	27495	25802
55°	25261	26782	24929
60°	24180	25982	23909
65°	22747	24940	22556
70°	21017	23490	20866
75°	18303	21048	18303
80°	14747	17573	15212
85°	8448	11856	10004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.7
10°-20°	253.8	4.9
20°-30°	380.3	7.4
30°-40°	452.1	8.7
40°-50°	462.8	8.9
50°-60°	412.7	8.0
60°-70°	308.3	6.0
70°-80°	168.1	3.2
80°-90°	40.0	0.8
90°-100°	23.4	0.5
100°-110°	108.7	2.1
110°-120°	317.0	6.1
120°-130°	460.7	8.9
130°-140°	492.9	9.5
140°-150°	471.6	9.1
150°-160°	388.8	7.5
160°-170°	254.3	4.9
170°-180°	88.2	1.7
0°-30°	723.1	14.0
0°-40°	1175.2	22.7
0°-60°	2050.7	39.6
0°-90°	2567.2	49.6
90°-120°	449.2	8.7
90°-150°	1874.4	36.2
90°-180°	2606.0	50.4
0°-180°	5173.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	942	942	942	942	942	
5°	936	939	948	937	936	89
15°	898	903	910	900	895	253
25°	819	832	838	828	815	377
35°	714	729	737	724	708	446
45°	589	606	615	600	582	454
55°	449	466	476	461	443	400
65°	298	313	326	311	295	295
75°	147	158	169	159	147	157
85°	23	30	32	33	27	33
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: P511795

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0	942.0
2.5°	936.0	940.6	941.4	940.2	949.4	940.9	940.7	940.6	937.3
5°	936.1	936.1	938.7	937.2	947.9	937.2	937.0	935.3	936.1
7.5°	928.4	929.4	931.2	929.6	939.7	928.8	929.4	926.9	928.2
10°	920.9	922.6	925.2	922.9	933.6	922.0	922.6	920.1	920.1
12.5°	912.8	914.5	917.7	914.8	925.5	914.6	914.5	911.3	911.3
15°	898.2	899.8	903.2	900.1	910.0	898.4	899.9	895.6	894.8
17.5°	877.4	880.9	885.4	882.2	892.3	880.6	881.3	875.5	874.1
20°	861.9	866.0	871.2	868.1	878.8	866.4	867.8	859.4	858.5
22.5°	845.7	849.2	856.3	853.2	863.3	851.5	853.0	841.8	841.7
25°	818.9	822.2	831.5	829.2	838.3	826.8	828.2	815.5	814.7
27.5°	790.1	794.3	803.7	801.6	810.6	798.3	799.7	786.0	784.3
30°	769.1	774.1	783.5	782.0	791.1	778.7	780.1	765.7	764.1
32.5°	746.9	753.1	762.6	761.7	770.2	758.4	757.8	744.1	741.8
35°	714.3	719.3	728.7	729.7	737.1	726.4	724.4	710.9	708.4
37.5°	678.6	683.7	693.1	695.2	701.7	691.1	688.0	674.5	671.8
40°	653.6	659.4	668.8	672.3	678.1	668.2	663.7	650.2	646.9
42.5°	628.0	634.4	644.5	648.0	653.1	643.2	638.1	625.2	621.2
45°	588.7	595.3	606.4	610.7	614.8	605.7	599.6	586.0	581.9
47.5°	547.8	554.4	565.9	571.2	574.3	566.9	559.8	546.2	541.3
50°	519.5	526.1	538.9	544.9	547.3	539.9	532.2	518.6	513.6
52.5°	491.8	497.8	510.6	517.2	519.0	512.9	504.5	491.5	485.9
55°	448.7	454.4	466.4	474.0	475.7	470.7	461.3	447.7	442.8
57.5°	404.1	409.9	421.7	430.2	432.0	427.0	416.8	404.9	399.2
60°	374.4	380.2	391.3	399.8	402.3	397.3	387.1	375.2	370.2
62.5°	344.1	348.5	360.3	368.8	372.6	368.3	357.4	344.2	339.9
65°	297.7	302.7	312.9	323.1	326.4	323.1	311.2	299.3	295.2
67.5°	253.0	256.3	265.7	275.7	279.8	276.2	265.5	253.3	250.6
70°	222.6	225.9	235.3	244.7	248.8	243.8	234.5	224.3	221.0
72.5°	190.9	194.2	202.9	212.3	215.7	210.8	202.7	193.9	189.9
75°	146.7	150.0	157.7	165.4	168.7	165.4	158.6	150.9	146.7
77.5°	105.6	108.7	115.4	122.0	123.5	121.3	116.6	109.9	106.8
80°	79.3	81.7	87.7	93.6	94.5	93.6	90.2	84.3	81.8
82.5°	55.7	57.5	63.4	68.0	67.5	69.3	66.0	60.7	58.9
85°	22.8	24.4	29.5	34.5	32.0	36.2	32.9	29.5	27.0
87.5°	3.0	3.0	5.7	9.6	8.9	11.8	9.5	7.9	6.8
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



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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)