

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: P511731

Luminaire Tested: **SQW-F-025U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511731
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

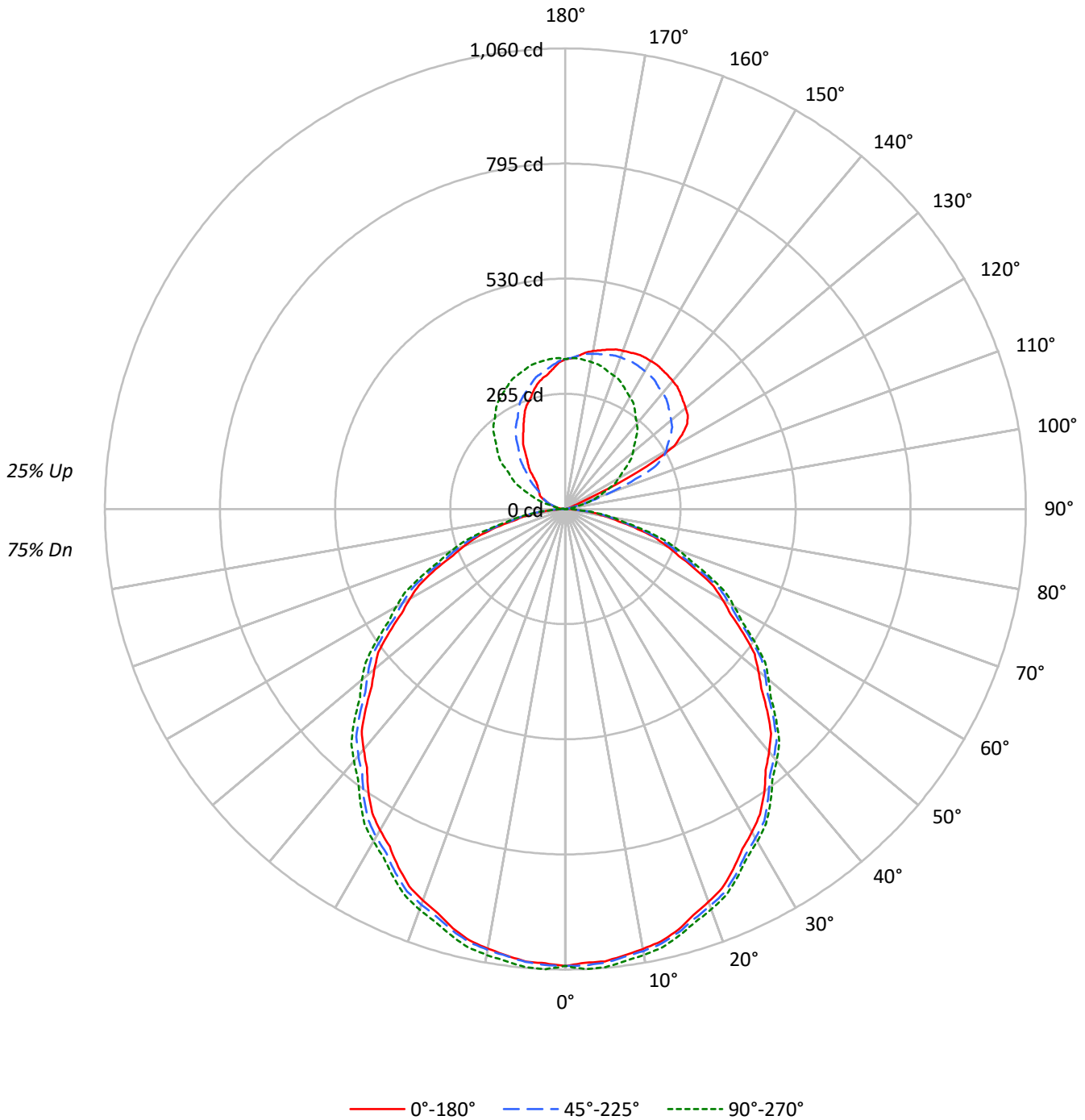
Lumens per Lamp: N/A
Luminaire Lumens: 3818.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.7
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





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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	87	85	83	80	77	75	73	70	68	67	63
2	94	86	80	74	89	82	76	72	75	70	66	68	64	61	61	59	56	53
3	86	76	68	62	81	72	65	60	66	60	56	60	55	52	54	51	48	44
4	78	67	59	52	74	64	57	51	59	52	47	53	48	44	48	44	41	38
5	72	60	51	45	68	57	49	44	52	46	41	48	42	38	44	39	36	33
6	66	54	45	39	63	52	44	38	47	41	36	43	38	33	40	35	31	29
7	62	49	40	34	58	47	39	33	43	36	32	39	34	30	36	31	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	26	33	28	25	23
9	53	41	33	27	51	39	32	27	36	30	25	33	28	24	31	26	22	20
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	33968	33968	33968
5°	33884	34312	33884
10°	33721	34184	33688
15°	33531	33969	33404
20°	33076	33722	32945
25°	32580	33353	32413
30°	32026	32940	31814
35°	31446	32448	31186
40°	30768	31919	30448
45°	30017	31351	29675
50°	29143	30705	28811
55°	28206	29900	27834
60°	27002	29011	26699
65°	25398	27851	25184
70°	23472	26229	23292
75°	20449	23493	20449
80°	16458	19619	16978
85°	9411	13264	11152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	2.6
10°-20°	283.4	7.4
20°-30°	424.7	11.1
30°-40°	504.9	13.2
40°-50°	516.8	13.5
50°-60°	460.8	12.1
60°-70°	344.3	9.0
70°-80°	187.7	4.9
80°-90°	44.3	1.2
90°-100°	8.4	0.2
100°-110°	38.6	1.0
110°-120°	112.1	2.9
120°-130°	169.2	4.4
130°-140°	181.1	4.7
140°-150°	173.1	4.5
150°-160°	143.3	3.8
160°-170°	94.1	2.5
170°-180°	32.6	0.9
0°-30°	807.4	21.1
0°-40°	1312.3	34.4
0°-60°	2290.0	60.0
0°-90°	2866.2	75.1
90°-120°	159.2	4.2
90°-150°	682.6	17.9
90°-180°	953.0	25.0
0°-180°	3818.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1052	1052	1052	1052	1052	
5°	1045	1048	1058	1046	1045	99
15°	1003	1009	1016	1005	999	282
25°	914	929	936	925	910	421
35°	798	814	823	809	791	498
45°	657	677	686	670	650	507
55°	501	521	531	515	494	447
65°	332	349	364	348	330	329
75°	164	176	188	177	164	175
85°	25	33	36	37	30	36
90°	1	1	0	1	2	1
95°	3	3	7	11	10	3
105°	10	26	45	29	31	12
115°	88	224	110	55	60	119
125°	343	296	174	82	75	300
135°	375	335	230	136	104	290
145°	390	360	279	196	163	245
155°	393	371	313	254	226	181
165°	380	368	337	300	282	108
175°	354	354	348	332	324	34
180°	345	345	345	345	345	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9	1051.9
2.5°	1045.1	1050.3	1051.2	1049.9	1060.2	1050.6	1050.4	1050.3	1046.7
5°	1045.3	1045.3	1048.2	1046.5	1058.5	1046.5	1046.3	1044.4	1045.3
7.5°	1036.7	1037.8	1039.9	1038.1	1049.3	1037.1	1037.8	1035.0	1036.5
10°	1028.4	1030.2	1033.1	1030.5	1042.5	1029.6	1030.3	1027.4	1027.4
12.5°	1019.3	1021.2	1024.8	1021.5	1033.5	1021.3	1021.2	1017.6	1017.6
15°	1003.0	1004.8	1008.6	1005.1	1016.1	1003.2	1004.8	1000.1	999.2
17.5°	979.8	983.7	988.6	985.1	996.4	983.3	984.1	977.7	976.0
20°	962.5	967.1	972.8	969.3	981.3	967.5	969.1	959.6	958.7
22.5°	944.4	948.2	956.2	952.7	964.0	950.9	952.5	940.0	939.9
25°	914.4	918.1	928.6	926.0	936.1	923.2	924.8	910.6	909.7
27.5°	882.2	887.0	897.5	895.1	905.2	891.4	893.0	877.7	875.8
30°	858.9	864.4	874.9	873.2	883.4	869.5	871.1	855.1	853.2
32.5°	834.0	841.0	851.5	850.6	860.0	846.9	846.3	830.9	828.4
35°	797.7	803.2	813.7	814.8	823.1	811.1	809.0	793.8	791.1
37.5°	757.7	763.4	773.9	776.3	783.5	771.7	768.3	753.1	750.2
40°	729.9	736.3	746.8	750.7	757.2	746.1	741.2	726.0	722.3
42.5°	701.2	708.4	719.7	723.6	729.3	718.2	712.5	698.1	693.7
45°	657.3	664.7	677.1	681.9	686.5	676.4	669.6	654.4	649.8
47.5°	611.8	619.1	631.9	637.8	641.3	633.0	625.1	609.9	604.4
50°	580.1	587.5	601.8	608.4	611.2	602.9	594.2	579.0	573.5
52.5°	549.2	555.9	570.1	577.5	579.5	572.7	563.4	548.9	542.6
55°	501.0	507.5	520.8	529.3	531.1	525.6	515.1	499.9	494.4
57.5°	451.3	457.7	470.9	480.3	482.4	476.8	465.4	452.1	445.8
60°	418.1	424.6	437.0	446.4	449.2	443.7	432.3	419.0	413.4
62.5°	384.2	389.2	402.3	411.8	416.1	411.3	399.1	384.3	379.5
65°	332.4	338.0	349.4	360.8	364.5	360.8	347.5	334.2	329.6
67.5°	282.5	286.2	296.6	307.9	312.5	308.4	296.5	282.8	279.9
70°	248.6	252.3	262.7	273.2	277.8	272.3	261.8	250.4	246.7
72.5°	213.2	216.9	226.6	237.0	240.9	235.4	226.4	216.5	212.1
75°	163.9	167.5	176.1	184.7	188.3	184.7	177.0	168.5	163.9
77.5°	117.9	121.4	128.8	136.2	137.9	135.5	130.1	122.7	119.2
80°	88.5	91.3	97.9	104.6	105.5	104.6	100.8	94.1	91.3
82.5°	62.2	64.2	70.8	75.9	75.3	77.4	73.6	67.8	65.7
85°	25.4	27.3	33.0	38.5	35.8	40.4	36.7	32.9	30.1
87.5°	3.2	3.2	6.2	10.5	9.8	12.7	10.0	7.7	6.4
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	1.0	1.9
92.5°	0.9	1.7	0.9	1.5	1.5	3.7	3.2	2.5	2.7
95°	2.8	2.8	2.8	6.6	6.6	9.4	11.4	10.4	9.5
97.5°	4.2	4.2	5.5	18.7	14.8	12.6	17.7	18.2	18.2
100°	5.7	5.7	8.5	29.2	20.9	17.2	19.9	22.8	22.8
102.5°	7.2	8.0	13.1	45.8	29.2	21.1	23.0	25.1	25.8
105°	10.4	11.4	25.6	78.0	44.6	28.8	29.4	30.4	31.3
107.5°	15.6	19.3	64.4	111.5	63.2	37.2	39.3	37.6	37.6
110°	20.9	28.3	109.2	132.6	76.9	43.5	44.6	43.7	43.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	33.0	55.3	163.1	150.0	90.6	51.2	49.2	51.2	49.8
115°	88.3	144.0	224.1	174.2	110.1	63.7	55.1	58.9	59.8
117.5°	210.4	251.8	254.1	194.5	130.3	77.7	59.8	64.2	66.1
120°	288.6	295.1	267.8	207.4	142.4	87.6	63.6	66.5	68.4
122.5°	318.3	312.1	279.9	219.6	154.6	99.1	69.7	69.5	71.4
125°	342.8	329.8	296.2	237.8	173.8	117.1	81.7	74.1	75.0
127.5°	354.9	341.9	309.7	252.9	191.8	136.3	96.7	80.5	79.8
130°	361.8	348.8	318.1	263.5	203.2	148.4	107.3	87.3	83.6
132.5°	367.8	355.6	325.7	272.0	214.6	159.8	118.7	95.6	90.4
135°	375.0	363.0	335.2	284.5	229.8	177.8	135.8	110.9	103.5
137.5°	381.5	370.4	343.9	295.9	245.7	193.9	153.1	128.9	120.8
140°	384.5	373.4	348.5	302.8	256.4	205.3	165.2	140.4	132.9
142.5°	387.6	377.2	353.0	309.7	265.5	216.6	177.4	152.5	145.1
145°	390.2	381.0	359.9	319.1	279.1	232.7	196.5	170.7	163.3
147.5°	393.1	383.2	364.2	327.1	290.4	248.6	213.8	189.0	181.7
150°	393.1	384.7	366.5	332.5	297.2	259.1	226.0	201.1	194.6
152.5°	393.8	384.7	368.8	337.1	304.8	268.9	237.4	213.3	207.6
155°	393.1	384.7	371.2	343.0	313.3	281.8	254.5	231.5	226.0
157.5°	389.7	384.3	371.2	346.6	322.1	293.1	269.3	251.2	243.4
160°	387.4	382.7	371.2	348.9	326.6	300.6	279.1	261.9	256.4
162.5°	385.1	380.5	370.5	351.2	331.2	307.4	287.5	271.1	267.0
165°	379.8	376.1	368.4	352.8	337.1	316.6	300.0	285.7	282.0
167.5°	373.9	371.3	365.0	353.9	341.4	325.5	311.0	299.9	295.7
170°	369.3	367.5	362.7	353.9	343.7	330.7	317.1	307.6	304.8
172.5°	363.3	362.2	359.7	352.5	345.2	334.5	324.0	315.2	312.4
175°	354.2	354.2	354.2	351.2	347.5	340.1	332.3	325.6	323.8
177.5°	346.9	347.7	348.5	347.7	347.7	344.0	340.1	336.3	337.1
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7

(END OF REPORT)