

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: P511815

Luminaire Tested: **SQW-F-0U-050D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511815
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

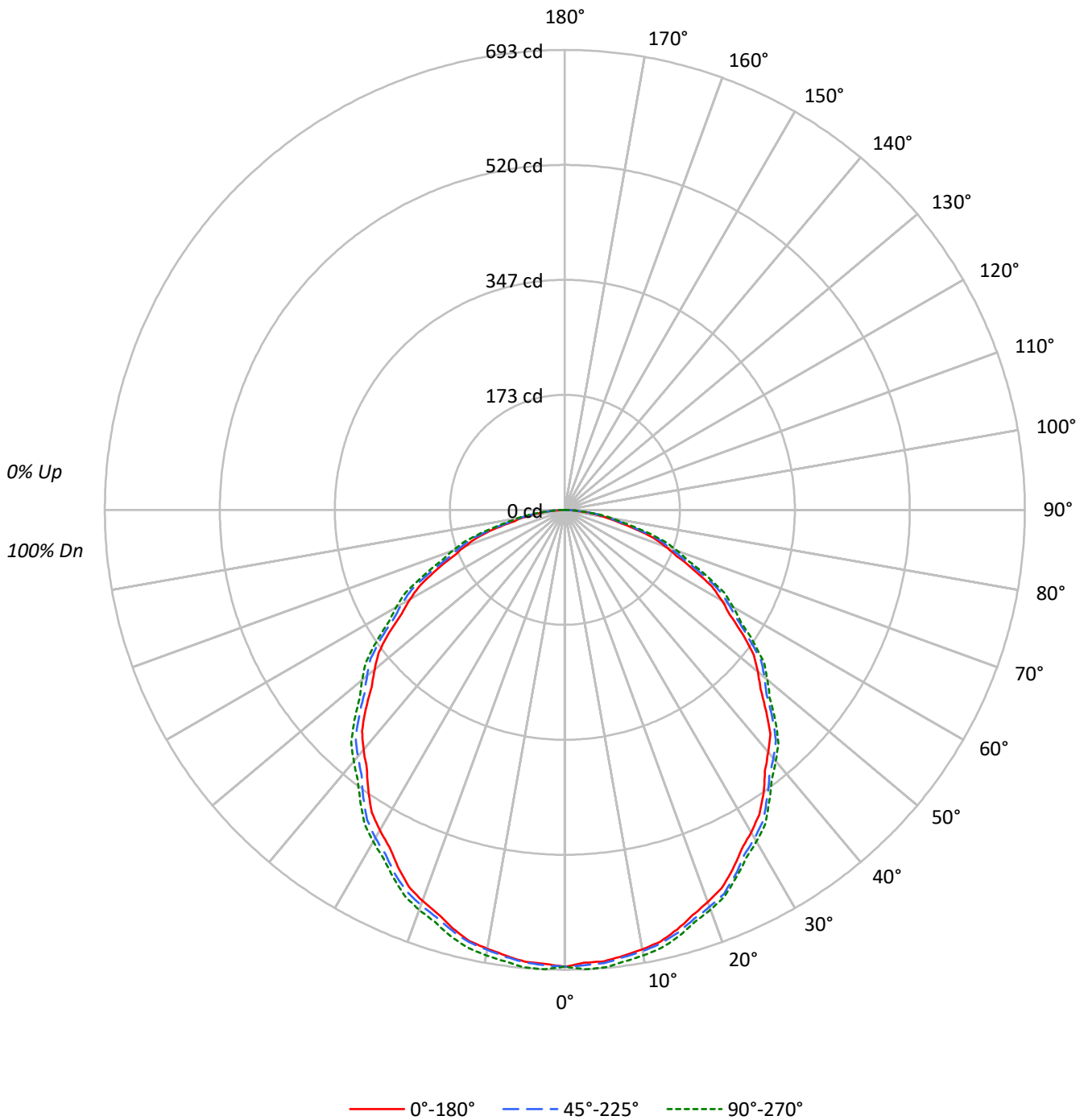
Lumens per Lamp: N/A
Luminaire Lumens: 1871.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 17.2
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22230	22230	22230
5°	22133	22438	22162
10°	22048	22356	22019
15°	21881	22228	21817
20°	21619	22038	21553
25°	21307	21777	21171
30°	20929	21526	20788
35°	20566	21161	20345
40°	20086	20841	19888
45°	19569	20473	19354
50°	19065	20015	18784
55°	18449	19513	18185
60°	17638	18917	17392
65°	16481	17987	16260
70°	15201	16985	15031
75°	13400	15396	13275
80°	10860	12962	11028
85°	6299	8707	7336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.5
10°-20°	185.2	9.9
20°-30°	277.5	14.8
30°-40°	329.9	17.6
40°-50°	337.6	18.0
50°-60°	301.1	16.1
60°-70°	223.4	11.9
70°-80°	122.3	6.5
80°-90°	29.0	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	527.8	28.2
0°-40°	857.6	45.8
0°-60°	1496.3	80.0
0°-90°	1871.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1871.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	688	688	688	688	688	
5°	683	686	692	685	684	65
15°	654	659	665	656	653	184
25°	598	607	611	606	594	275
35°	522	531	537	529	516	326
45°	428	442	448	438	424	331
55°	328	339	347	338	323	292
65°	216	226	235	225	213	214
75°	107	115	123	115	106	114
85°	17	23	24	24	20	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	683.1	686.1	686.9	686.3	692.9	687.0	686.9	686.1	684.6
5°	682.8	683.7	685.6	683.9	692.2	683.9	684.6	682.8	683.7
7.5°	677.7	678.6	679.8	678.8	686.3	678.8	679.4	677.5	677.5
10°	672.4	673.3	675.2	673.5	681.8	673.5	673.3	671.5	671.5
12.5°	666.4	667.3	669.2	667.5	675.8	667.5	667.3	664.7	665.4
15°	654.5	657.3	659.2	656.6	664.9	656.6	656.4	654.5	652.6
17.5°	640.4	643.1	646.4	643.6	651.1	642.7	643.6	639.4	637.7
20°	629.1	631.8	636.6	633.0	641.3	632.1	633.8	628.1	627.2
22.5°	617.0	619.1	626.1	622.5	630.0	621.6	622.5	615.3	614.4
25°	598.0	599.8	607.4	604.7	611.2	602.9	605.5	595.2	594.2
27.5°	576.3	579.1	586.0	584.2	591.6	582.4	585.0	574.2	572.6
30°	561.3	564.0	571.6	569.9	577.3	568.1	570.7	558.4	557.5
32.5°	544.7	548.9	555.8	555.6	561.5	553.0	554.1	542.6	540.9
35°	521.7	524.5	531.1	531.3	536.8	529.4	529.3	517.9	516.1
37.5°	495.4	499.0	506.1	507.2	512.5	504.4	503.1	492.8	489.9
40°	476.5	480.2	488.8	489.8	494.4	487.0	485.0	475.5	471.8
42.5°	458.4	462.1	470.7	471.7	476.3	469.7	466.2	457.4	452.2
45°	428.5	433.1	441.7	444.6	448.3	441.8	437.9	427.5	423.8
47.5°	399.9	403.5	412.3	417.0	418.7	414.3	409.3	398.1	394.2
50°	379.5	383.2	392.7	397.4	398.4	394.7	388.9	378.5	373.9
52.5°	358.4	362.1	372.4	377.1	378.0	374.3	368.6	358.1	353.5
55°	327.7	331.4	339.0	346.6	346.6	344.7	338.1	326.7	323.0
57.5°	295.0	298.5	308.0	314.5	314.7	312.2	305.3	294.9	291.2
60°	273.1	275.9	285.3	292.0	292.9	291.0	283.5	273.0	269.3
62.5°	249.0	252.5	262.0	269.4	271.0	268.5	260.1	250.4	245.2
65°	215.7	217.5	226.0	233.6	235.4	232.7	225.1	215.6	212.8
67.5°	182.9	184.0	192.1	199.7	201.7	198.8	191.2	184.7	180.2
70°	161.0	162.9	169.5	177.1	179.9	176.2	168.6	162.8	159.2
72.5°	139.2	141.0	147.7	154.5	157.3	154.3	147.5	141.7	138.1
75°	107.4	108.3	114.9	121.5	123.4	120.6	114.9	110.1	106.4
77.5°	77.2	78.1	85.1	89.1	90.8	89.1	84.6	80.0	77.4
80°	58.4	59.3	64.0	68.8	69.7	68.8	65.0	61.2	59.3
82.5°	40.3	41.2	46.7	49.9	50.1	50.7	47.7	44.6	42.0
85°	17.0	17.9	22.6	25.4	23.5	26.3	24.5	21.6	19.8
87.5°	2.3	2.3	4.5	6.8	6.8	7.5	6.0	5.2	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)