

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: P511821

Luminaire Tested: **SQW-F-0U-075D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511821
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-075D-830-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

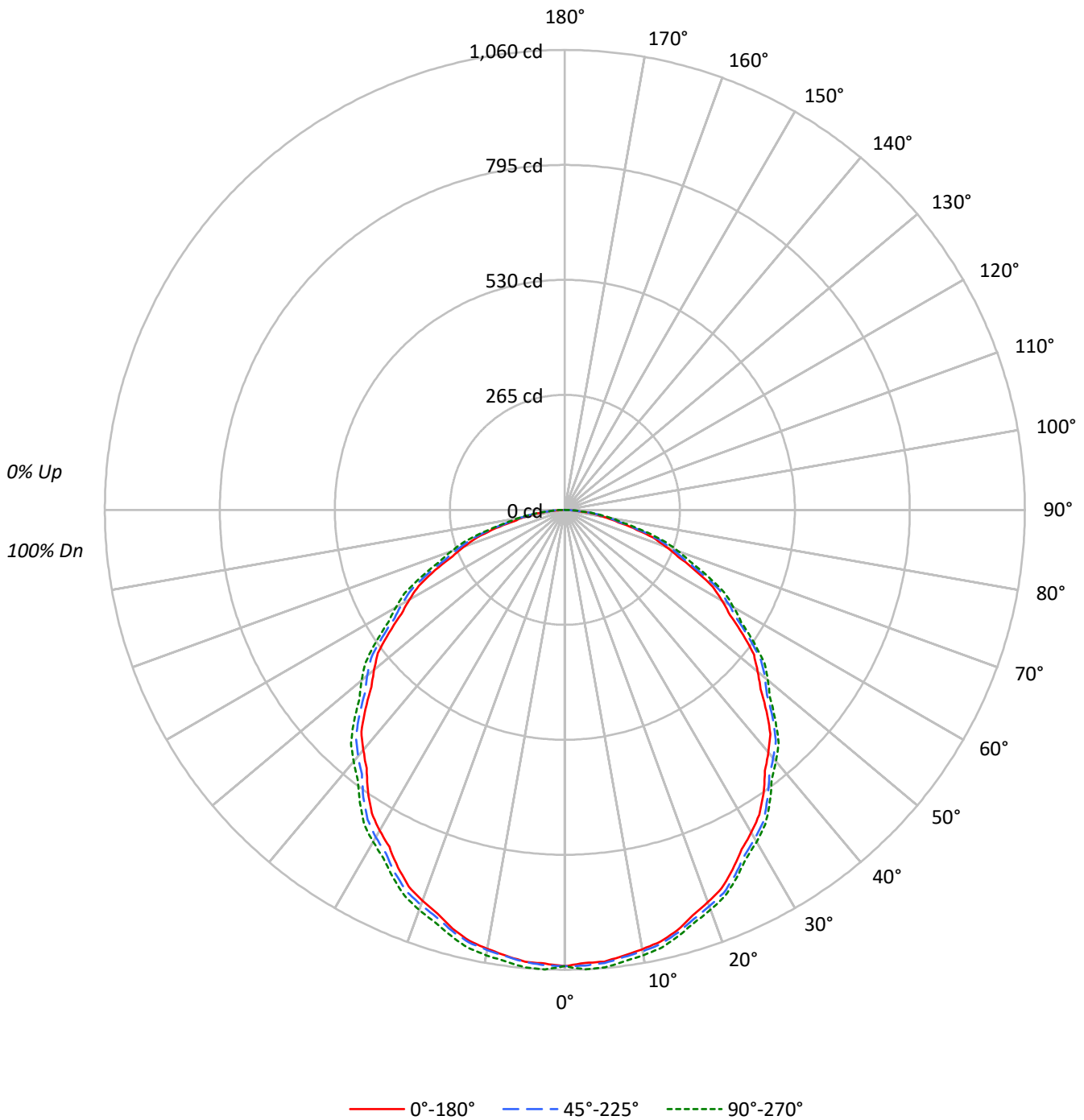
Lumens per Lamp: N/A
Luminaire Lumens: 2866.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 27.3
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	61	59
4	83	71	62	55	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	40	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	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	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	26	25

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	3.5
10°-20°	283.4	9.9
20°-30°	424.7	14.8
30°-40°	504.9	17.6
40°-50°	516.8	18.0
50°-60°	460.8	16.1
60°-70°	344.3	12.0
70°-80°	187.7	6.5
80°-90°	44.2	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°	807.4	28.2
0°-40°	1312.3	45.8
0°-60°	2290.0	79.9
0°-90°	2866.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.1	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	37
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°	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°	3.0	3.0	6.0	10.5	9.8	12.7	9.8	7.5	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)