

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: P511824

Luminaire Tested: **SQW-F-0U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511824
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-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

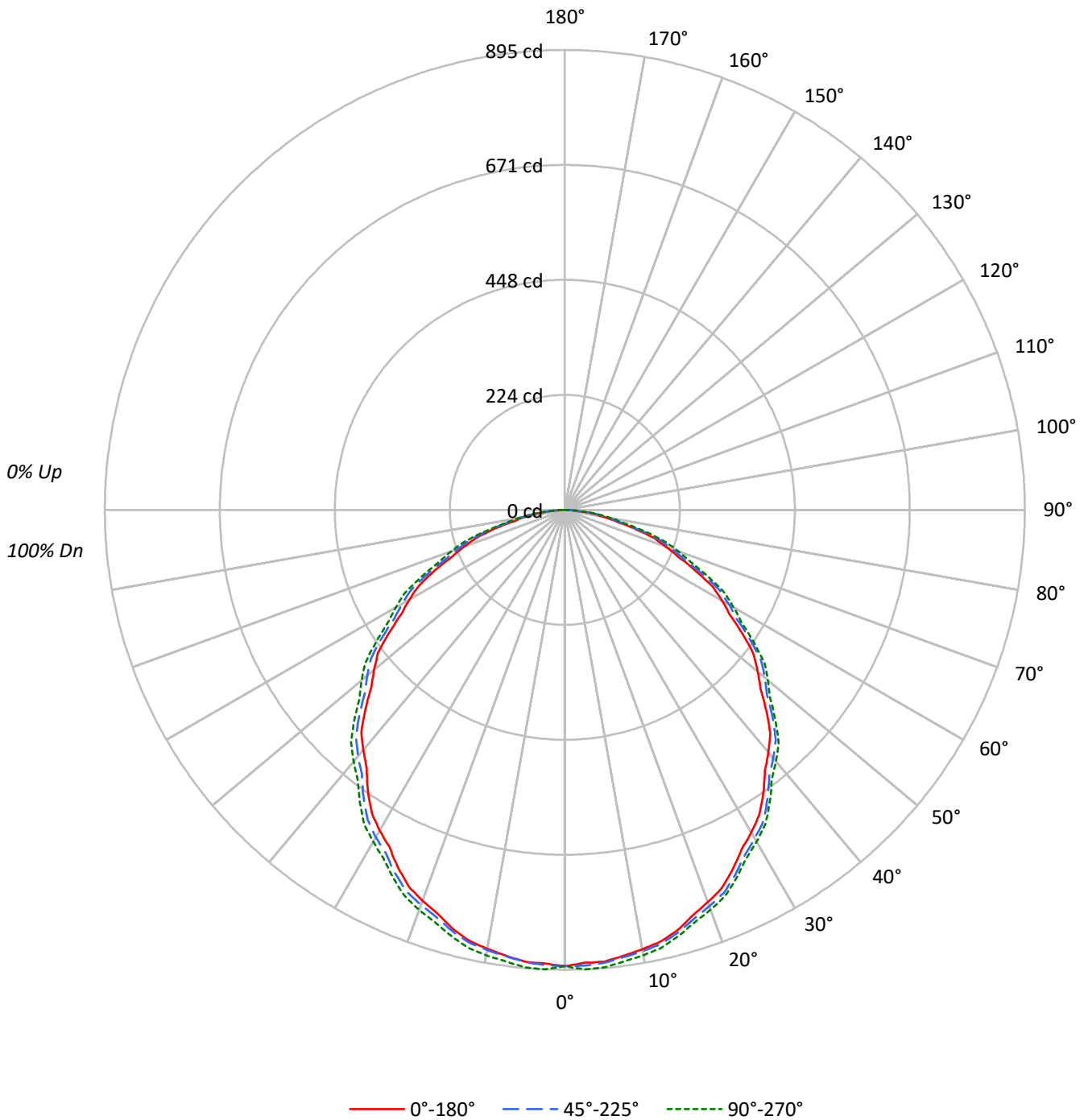
Lumens per Lamp: N/A
Luminaire Lumens: 2419.8 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

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°	28678	28678	28678
5°	28610	28969	28610
10°	28468	28862	28442
15°	28309	28680	28202
20°	27924	28471	27814
25°	27506	28159	27368
30°	27037	27809	26862
35°	26546	27394	26329
40°	25975	26949	25706
45°	25346	26469	25053
50°	24606	25922	24325
55°	23815	25245	23499
60°	22798	24497	22540
65°	21448	23511	21265
70°	19818	22150	19667
75°	17255	19838	17255
80°	13891	16569	14338
85°	7966	11189	9411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.9	3.5
10°-20°	239.2	9.9
20°-30°	358.5	14.8
30°-40°	426.3	17.6
40°-50°	436.3	18.0
50°-60°	389.1	16.1
60°-70°	290.7	12.0
70°-80°	158.5	6.5
80°-90°	37.3	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°	681.7	28.2
0°-40°	1108.0	45.8
0°-60°	1933.4	79.9
0°-90°	2419.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2419.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	888	888	888	888	888	
5°	883	885	894	883	883	84
15°	847	852	858	848	844	238
25°	772	784	790	781	768	355
35°	673	687	695	683	668	421
45°	555	572	580	565	549	428
55°	423	440	448	435	417	378
65°	281	295	308	293	278	278
75°	138	149	159	150	138	148
85°	22	28	30	31	25	31
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°	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1	888.1
2.5°	882.4	886.7	887.5	886.4	895.1	887.0	886.8	886.8	883.7
5°	882.6	882.6	884.9	883.6	893.7	883.6	883.4	881.8	882.6
7.5°	875.2	876.2	877.9	876.4	885.9	875.6	876.2	873.8	875.1
10°	868.2	869.8	872.2	870.1	880.2	869.3	869.8	867.4	867.4
12.5°	860.6	862.2	865.2	862.4	872.5	862.3	862.2	859.2	859.2
15°	846.8	848.3	851.5	848.6	857.9	847.0	848.4	844.4	843.6
17.5°	827.2	830.5	834.7	831.7	841.2	830.2	830.9	825.4	824.0
20°	812.6	816.5	821.3	818.4	828.5	816.8	818.2	810.2	809.4
22.5°	797.3	800.6	807.3	804.4	813.9	802.8	804.2	793.7	793.5
25°	772.0	775.1	784.0	781.8	790.3	779.4	780.8	768.8	768.1
27.5°	744.8	748.9	757.7	755.7	764.2	752.6	753.9	741.0	739.4
30°	725.1	729.8	738.6	737.2	745.8	734.1	735.5	721.9	720.4
32.5°	704.1	710.0	718.9	718.2	726.1	715.0	714.5	701.5	699.4
35°	673.4	678.1	687.0	687.9	694.9	684.8	683.0	670.2	667.9
37.5°	639.7	644.6	653.4	655.5	661.5	651.6	648.6	635.9	633.4
40°	616.2	621.6	630.5	633.8	639.3	629.9	625.7	612.9	609.8
42.5°	592.0	598.1	607.6	610.9	615.7	606.4	601.6	589.4	585.7
45°	555.0	561.2	571.7	575.7	579.6	571.1	565.3	552.5	548.6
47.5°	516.5	522.7	533.5	538.5	541.5	534.5	527.8	515.0	510.3
50°	489.8	496.0	508.1	513.7	516.0	509.0	501.7	488.9	484.2
52.5°	463.7	469.3	481.4	487.6	489.3	483.5	475.6	463.4	458.1
55°	423.0	428.4	439.7	446.9	448.4	443.8	434.9	422.1	417.4
57.5°	381.0	386.5	397.5	405.5	407.2	402.6	392.9	381.7	376.4
60°	353.0	358.5	368.9	376.9	379.3	374.6	364.9	353.7	349.0
62.5°	324.4	328.6	339.7	347.7	351.3	347.2	337.0	324.5	320.4
65°	280.7	285.3	295.0	304.6	307.7	304.6	293.4	282.2	278.3
67.5°	238.5	241.6	250.5	259.9	263.8	260.4	250.3	238.8	236.3
70°	209.9	213.0	221.8	230.7	234.6	229.9	221.0	211.4	208.3
72.5°	180.0	183.1	191.3	200.1	203.4	198.7	191.1	182.8	179.1
75°	138.3	141.5	148.7	155.9	159.0	155.9	149.5	142.2	138.3
77.5°	99.5	102.5	108.8	115.0	116.4	114.4	109.9	103.6	100.7
80°	74.7	77.1	82.7	88.3	89.1	88.3	85.1	79.5	77.1
82.5°	52.5	54.2	59.8	64.1	63.6	65.3	62.2	57.2	55.5
85°	21.5	23.0	27.8	32.5	30.2	34.1	31.0	27.8	25.4
87.5°	2.5	2.5	5.1	8.9	8.3	10.8	8.3	6.3	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)