

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: P511734

Luminaire Tested: **SQW-F-025U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511734
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-930-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

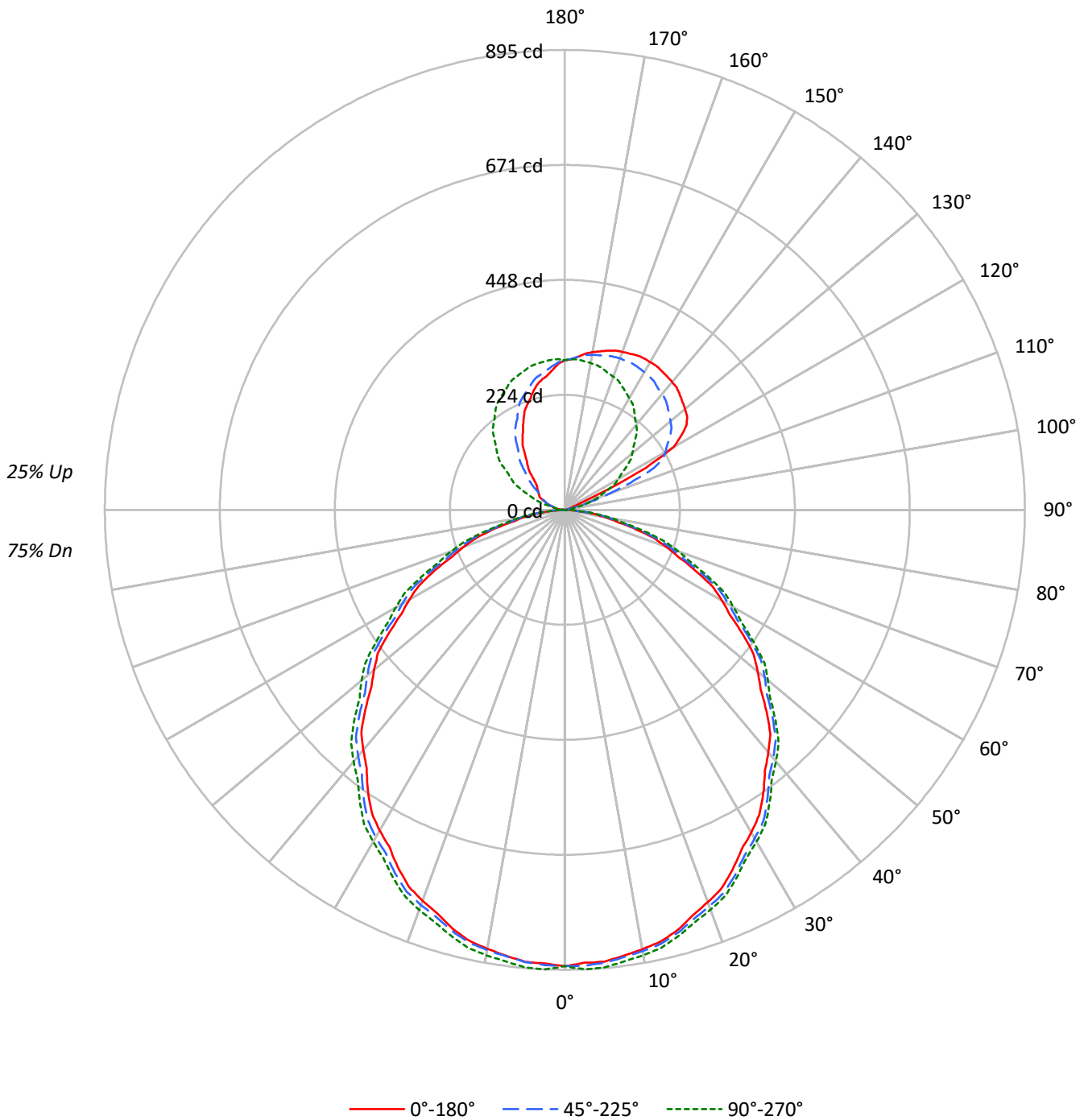
Lumens per Lamp: N/A
Luminaire Lumens: 3224.2 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

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°	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	2.6
10°-20°	239.2	7.4
20°-30°	358.5	11.1
30°-40°	426.3	13.2
40°-50°	436.3	13.5
50°-60°	389.1	12.1
60°-70°	290.7	9.0
70°-80°	158.5	4.9
80°-90°	37.4	1.2
90°-100°	7.1	0.2
100°-110°	32.6	1.0
110°-120°	94.6	2.9
120°-130°	142.8	4.4
130°-140°	152.9	4.7
140°-150°	146.1	4.5
150°-160°	121.0	3.8
160°-170°	79.5	2.5
170°-180°	27.6	0.9
0°-30°	681.7	21.1
0°-40°	1108.0	34.4
0°-60°	1933.4	60.0
0°-90°	2419.9	75.1
90°-120°	134.4	4.2
90°-150°	576.3	17.9
90°-180°	804.0	24.9
0°-180°	3224.2	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°	1	1	0	1	2	1
95°	2	2	6	10	8	2
105°	9	22	38	25	26	10
115°	75	189	93	46	50	100
125°	289	250	147	69	63	253
135°	317	283	194	115	87	245
145°	330	304	236	166	138	207
155°	332	313	264	215	191	153
165°	321	311	285	253	238	91
175°	299	299	293	281	273	29
180°	291	291	291	291	291	



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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°	2.7	2.7	5.2	8.9	8.3	10.8	8.4	6.5	5.4
90°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	1.6
92.5°	0.8	1.4	0.8	1.3	1.3	3.2	2.7	2.1	2.2
95°	2.4	2.4	2.4	5.6	5.6	8.0	9.6	8.8	8.0
97.5°	3.5	3.5	4.6	15.8	12.5	10.6	14.9	15.4	15.4
100°	4.8	4.8	7.2	24.7	17.6	14.5	16.8	19.2	19.2
102.5°	6.1	6.7	11.1	38.6	24.7	17.8	19.4	21.2	21.8
105°	8.8	9.6	21.6	65.9	37.7	24.4	24.9	25.7	26.5
107.5°	13.1	16.3	54.4	94.1	53.4	31.4	33.2	31.7	31.7
110°	17.6	23.9	92.2	112.0	64.9	36.7	37.7	36.9	36.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	27.9	46.7	137.7	126.6	76.5	43.2	41.5	43.3	42.0
115°	74.6	121.6	189.2	147.1	93.0	53.8	46.5	49.7	50.5
117.5°	177.6	212.6	214.5	164.2	110.0	65.6	50.5	54.2	55.8
120°	243.7	249.2	226.1	175.1	120.2	74.0	53.7	56.1	57.7
122.5°	268.7	263.5	236.3	185.4	130.5	83.6	58.8	58.7	60.3
125°	289.4	278.4	250.1	200.8	146.7	98.9	68.9	62.5	63.3
127.5°	299.6	288.7	261.5	213.5	161.9	115.1	81.6	68.0	67.3
130°	305.4	294.4	268.5	222.5	171.5	125.3	90.6	73.7	70.5
132.5°	310.6	300.2	275.0	229.6	181.2	134.9	100.2	80.7	76.3
135°	316.6	306.5	283.0	240.2	194.0	150.1	114.6	93.6	87.4
137.5°	322.1	312.7	290.3	249.8	207.5	163.7	129.2	108.9	102.0
140°	324.7	315.3	294.2	255.6	216.4	173.3	139.5	118.5	112.2
142.5°	327.2	318.4	298.0	261.4	224.1	182.9	149.7	128.8	122.5
145°	329.5	321.6	303.8	269.4	235.7	196.5	165.9	144.2	137.9
147.5°	331.9	323.6	307.5	276.2	245.1	209.9	180.5	159.5	153.4
150°	331.9	324.8	309.4	280.7	250.9	218.8	190.8	169.8	164.3
152.5°	332.5	324.8	311.4	284.6	257.3	227.1	200.4	180.1	175.2
155°	331.9	324.8	313.4	289.6	264.5	237.9	214.8	195.5	190.8
157.5°	329.0	324.4	313.4	292.6	271.9	247.5	227.3	212.1	205.5
160°	327.1	323.1	313.4	294.6	275.8	253.8	235.7	221.1	216.4
162.5°	325.1	321.2	312.8	296.5	279.6	259.5	242.7	228.9	225.4
165°	320.7	317.5	311.0	297.9	284.6	267.3	253.3	241.2	238.1
167.5°	315.7	313.5	308.1	298.8	288.3	274.8	262.6	253.2	249.6
170°	311.8	310.3	306.2	298.8	290.2	279.2	267.7	259.7	257.3
172.5°	306.7	305.8	303.7	297.6	291.5	282.4	273.5	266.1	263.7
175°	299.0	299.0	299.0	296.5	293.4	287.1	280.6	274.9	273.4
177.5°	292.9	293.5	294.2	293.6	293.6	290.4	287.1	284.0	284.6
180°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0	291.0

(END OF REPORT)