

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: P511722

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

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511722
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-025D-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

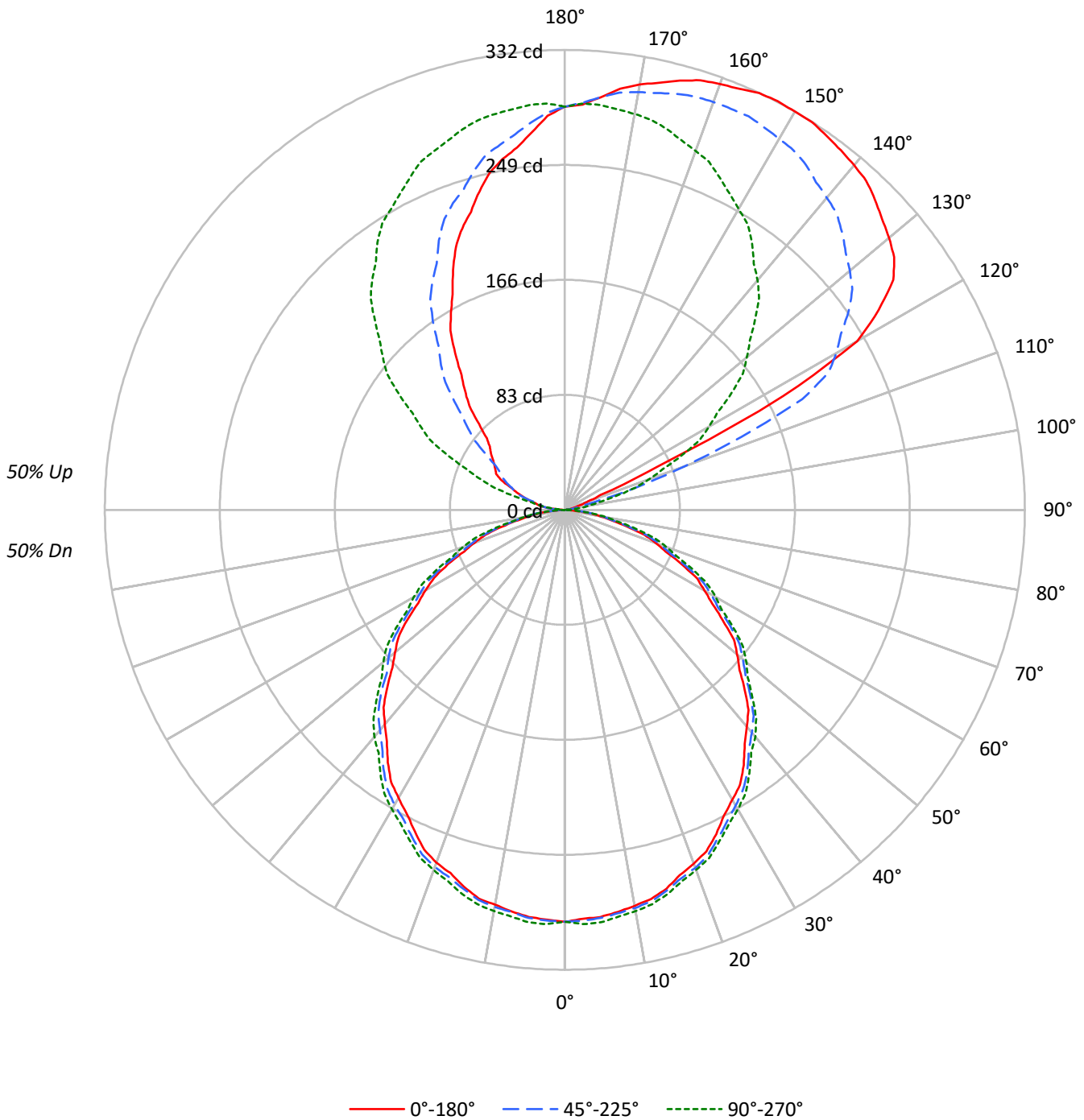
Lumens per Lamp: N/A
Luminaire Lumens: 1609.4 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 16.2
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	40	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	9604	9604	9604
5°	9562	9692	9562
10°	9516	9647	9489
15°	9464	9595	9411
20°	9344	9509	9316
25°	9207	9406	9121
30°	9012	9311	8953
35°	8870	9154	8775
40°	8612	9017	8515
45°	8389	8750	8280
50°	8148	8586	8028
55°	7831	8372	7831
60°	7498	8112	7498
65°	7106	7778	7106
70°	6609	7355	6534
75°	5752	6650	5852
80°	4723	5467	4872
85°	2668	3816	3223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	1.7
10°-20°	80.0	5.0
20°-30°	119.8	7.4
30°-40°	142.2	8.8
40°-50°	144.5	9.0
50°-60°	128.8	8.0
60°-70°	96.1	6.0
70°-80°	52.9	3.3
80°-90°	12.6	0.8
90°-100°	7.1	0.4
100°-110°	32.6	2.0
110°-120°	94.6	5.9
120°-130°	142.8	8.9
130°-140°	152.9	9.5
140°-150°	146.1	9.1
150°-160°	121.0	7.5
160°-170°	79.5	4.9
170°-180°	27.6	1.7
0°-30°	227.9	14.2
0°-40°	370.2	23.0
0°-60°	643.5	40.0
0°-90°	805.1	50.0
90°-120°	134.4	8.4
90°-150°	576.3	35.8
90°-180°	804.0	50.0
0°-180°	1609.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	297	297	297	297	297	
5°	295	296	299	296	295	28
15°	283	285	287	283	282	80
25°	258	262	264	261	256	119
35°	225	230	232	228	223	140
45°	184	189	192	188	181	142
55°	139	146	149	144	139	125
65°	93	97	102	97	93	92
75°	46	49	53	49	47	50
85°	7	10	10	10	9	10
90°	1	1	0	1	2	0
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	



TEST NUMBER: P511722

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4
2.5°	295.5	296.7	296.7	296.8	299.3	296.8	296.7	296.7	296.1
5°	295.0	295.0	295.8	295.8	299.0	295.8	295.8	295.0	295.0
7.5°	292.8	292.9	293.7	293.6	296.1	292.8	292.9	292.8	292.6
10°	290.2	291.0	291.8	291.1	294.2	290.3	291.0	290.2	289.4
12.5°	287.7	288.4	289.3	288.5	291.6	288.4	288.5	287.7	287.5
15°	283.1	283.8	284.6	283.9	287.0	283.1	283.1	282.2	281.5
17.5°	276.4	277.8	278.9	278.2	281.1	277.4	278.1	276.2	274.9
20°	271.9	272.7	275.1	274.4	276.7	273.6	274.3	271.1	271.1
22.5°	266.8	267.6	270.0	269.3	272.2	268.5	269.2	266.0	265.4
25°	258.4	259.2	261.6	260.9	264.0	260.1	260.8	256.8	256.0
27.5°	248.7	249.6	253.5	252.8	256.0	251.4	252.0	248.0	247.1
30°	241.7	243.3	246.5	245.8	249.7	245.0	245.7	241.7	240.1
32.5°	235.3	236.9	239.5	240.0	242.7	238.6	238.7	234.7	233.1
35°	225.0	226.6	229.8	229.8	232.2	228.3	228.2	224.2	222.6
37.5°	213.2	214.6	218.2	219.2	220.9	217.3	216.4	212.4	210.9
40°	204.3	205.1	209.9	211.5	213.9	208.4	207.5	203.5	202.0
42.5°	196.1	197.5	201.6	202.6	204.3	200.8	199.3	195.2	193.7
45°	183.7	185.2	189.2	190.8	191.6	188.5	187.6	183.6	181.3
47.5°	171.1	172.7	176.7	178.4	179.2	176.9	174.4	171.1	168.7
50°	162.2	163.8	167.8	170.2	170.9	168.6	166.2	162.1	159.8
52.5°	153.9	154.9	158.9	161.9	162.0	160.3	157.3	153.3	151.5
55°	139.1	141.5	145.5	148.7	148.7	147.1	143.9	139.9	139.1
57.5°	126.3	127.2	131.2	134.4	134.5	133.6	130.4	126.4	125.6
60°	116.1	117.6	121.6	124.8	125.6	124.1	120.9	116.9	116.1
62.5°	107.8	108.1	112.1	115.3	116.1	114.5	111.3	107.9	106.5
65°	93.0	93.8	97.0	101.0	101.8	100.2	97.0	93.8	93.0
67.5°	78.9	79.7	82.7	86.5	87.5	85.9	81.9	79.5	78.7
70°	70.0	70.7	73.1	76.4	77.9	76.4	72.4	70.0	69.2
72.5°	60.4	61.2	63.6	66.8	67.7	66.2	62.8	61.0	60.3
75°	46.1	47.7	49.3	52.5	53.3	52.5	49.3	47.7	46.9
77.5°	33.7	34.5	36.1	38.3	39.0	38.3	36.9	34.5	34.5
80°	25.4	26.2	27.8	29.4	29.4	29.4	28.6	26.2	26.2
82.5°	17.8	18.6	19.6	21.8	21.1	21.8	21.0	19.2	18.6
85°	7.2	7.9	9.5	11.1	10.3	11.1	10.3	8.7	8.7
87.5°	0.8	1.4	1.4	3.2	3.2	3.8	2.7	2.1	2.2
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)