

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: P511752

Luminaire Tested: **SQW-F-050U-025D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511752
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-16,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-025D-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

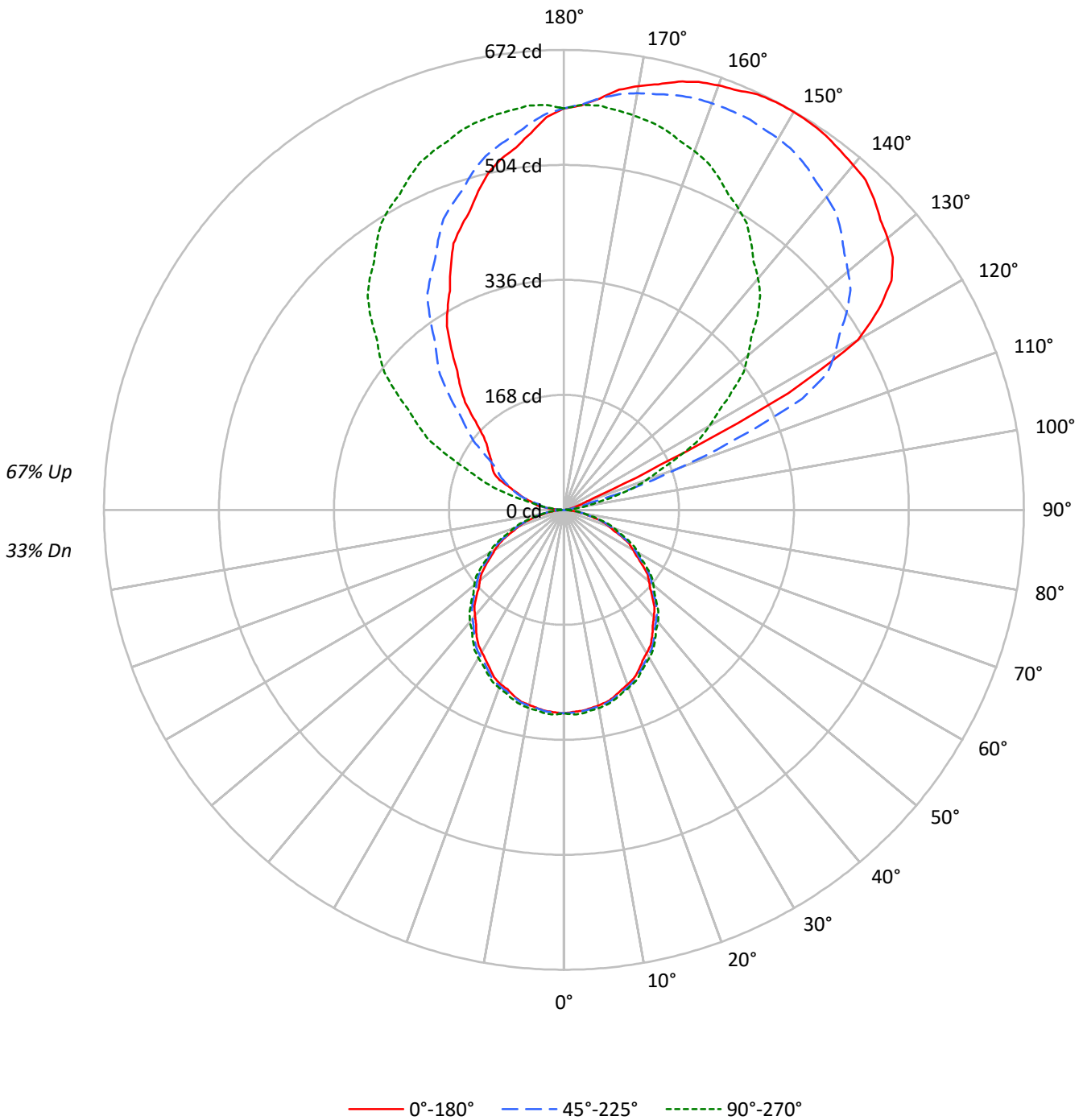
Lumens per Lamp: N/A
Luminaire Lumens: 2439.9 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.34
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 23.1
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	41	41	41	33
1	94	90	86	83	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	66	61	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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	1.2
10°-20°	80.0	3.3
20°-30°	119.8	4.9
30°-40°	142.2	5.8
40°-50°	144.5	5.9
50°-60°	128.8	5.3
60°-70°	96.1	3.9
70°-80°	52.9	2.2
80°-90°	12.7	0.5
90°-100°	14.4	0.6
100°-110°	65.8	2.7
110°-120°	193.0	7.9
120°-130°	290.6	11.9
130°-140°	312.0	12.8
140°-150°	297.8	12.2
150°-160°	245.0	10.0
160°-170°	160.4	6.6
170°-180°	55.6	2.3
0°-30°	227.9	9.3
0°-40°	370.2	15.2
0°-60°	643.5	26.4
0°-90°	805.2	33.0
90°-120°	273.2	11.2
90°-150°	1173.6	48.1
90°-180°	1635.0	67.0
0°-180°	2439.9	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	1	2	3	1
95°	4	5	11	18	17	5
105°	18	43	75	50	53	21
115°	155	384	188	94	104	207
125°	584	504	299	141	130	513
135°	641	573	400	238	183	495
145°	667	615	477	341	287	418
155°	670	632	536	435	391	309
165°	648	627	575	512	482	184
175°	604	604	593	567	553	59
180°	586	586	586	586	586	



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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	3.3	3.3	4.0	2.9	2.4	2.6
90°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.5	3.3
92.5°	2.1	2.1	2.1	2.8	2.8	6.6	4.9	4.4	5.2
95°	4.1	4.1	4.9	12.2	10.6	16.3	18.0	17.2	17.2
97.5°	7.2	7.2	9.3	32.6	24.1	22.2	30.3	31.3	31.0
100°	9.8	9.8	13.9	52.0	35.2	28.8	33.6	38.5	40.1
102.5°	12.4	13.1	21.1	80.5	49.6	36.8	38.2	43.1	44.7
105°	18.0	19.6	42.6	135.4	75.3	48.9	50.0	50.8	53.2
107.5°	26.7	32.6	107.9	193.3	106.3	64.2	66.3	63.7	63.9
110°	35.2	48.8	182.6	230.3	128.6	74.9	76.2	72.9	73.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	57.5	96.7	277.6	259.6	152.2	87.6	83.4	86.6	84.8
115°	154.8	252.5	384.1	302.0	187.5	109.1	94.2	101.6	104.0
117.5°	369.8	435.8	434.2	337.9	222.7	135.0	104.2	111.1	115.1
120°	496.3	505.9	457.8	360.2	245.7	152.8	111.4	116.4	120.4
122.5°	545.4	533.9	477.4	380.5	267.3	171.8	121.2	120.3	125.0
125°	583.9	563.1	504.5	408.6	298.9	203.6	140.9	127.8	130.2
127.5°	605.7	582.6	527.7	434.9	331.0	235.4	166.9	140.2	138.7
130°	617.5	595.0	542.1	451.4	351.3	257.6	185.9	150.6	146.6
132.5°	627.3	606.8	555.2	467.2	371.0	279.2	206.2	166.2	159.0
135°	641.2	622.0	573.2	488.5	399.6	309.9	237.5	193.0	182.6
137.5°	653.0	633.5	588.5	508.8	424.4	340.0	267.9	225.7	213.6
140°	657.6	640.0	597.0	520.7	441.4	358.9	288.3	245.5	235.8
142.5°	662.2	645.2	604.8	532.5	455.8	377.2	309.2	266.4	256.2
145°	667.4	650.6	615.0	547.9	476.6	403.7	340.7	297.0	286.6
147.5°	670.2	655.1	622.5	560.8	496.9	428.2	371.6	327.7	318.2
150°	671.5	657.1	626.5	569.4	509.4	444.5	390.6	348.7	339.8
152.5°	671.5	656.5	628.4	576.1	519.8	459.5	409.0	369.0	360.8
155°	669.9	655.5	632.2	584.4	535.6	481.1	434.8	400.2	391.4
157.5°	663.3	654.7	632.2	592.1	549.2	501.3	460.1	429.3	421.4
160°	660.0	652.0	632.2	596.1	557.7	513.6	475.8	447.0	439.8
162.5°	655.5	647.5	630.9	598.8	564.9	524.7	490.9	462.7	457.4
165°	647.8	639.8	627.3	601.3	574.9	540.4	511.8	487.9	482.3
167.5°	636.8	632.3	622.2	602.1	580.9	554.5	529.5	510.4	505.9
170°	628.9	625.7	618.3	601.5	585.5	562.3	541.3	524.9	521.6
172.5°	619.1	617.2	612.4	601.0	588.8	570.1	552.4	536.7	534.1
175°	603.5	605.1	603.5	598.5	592.9	580.1	566.7	555.2	552.8
177.5°	591.6	591.6	592.9	592.9	592.2	585.8	579.8	573.3	574.5
180°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3

(END OF REPORT)