

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: P511728

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

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511728
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-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

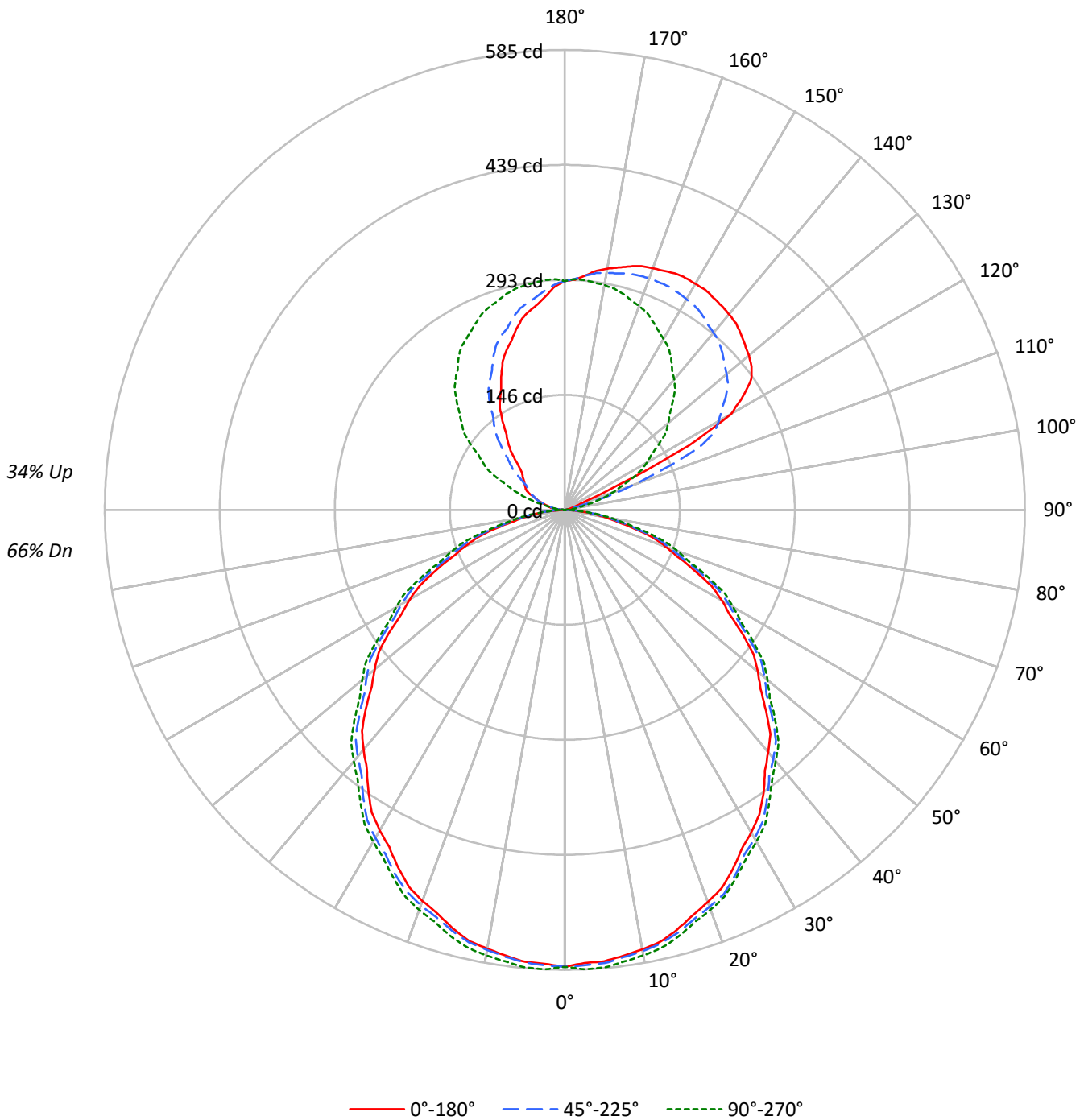
Lumens per Lamp: N/A
Luminaire Lumens: 2384.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 24.6
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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71	66
1	101	97	93	89	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	69	71	67	63	63	59	56	55	53	50	47
3	84	74	67	61	79	70	63	58	63	57	53	55	51	48	49	46	43	39
4	77	66	58	51	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	36	31	28	25
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	26	21	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18768	18768	18768
5°	18684	18943	18710
10°	18615	18874	18589
15°	18474	18765	18420
20°	18251	18608	18196
25°	17990	18385	17876
30°	17671	18174	17551
35°	17365	17866	17176
40°	16959	17595	16790
45°	16523	17285	16340
50°	16096	16895	15860
55°	15578	16473	15353
60°	14893	15972	14686
65°	13914	15190	13731
70°	12840	14342	12689
75°	11304	13001	11204
80°	9168	10935	9317
85°	5298	7373	6187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	2.3
10°-20°	156.4	6.6
20°-30°	234.3	9.8
30°-40°	278.5	11.7
40°-50°	285.0	12.0
50°-60°	254.2	10.7
60°-70°	188.6	7.9
70°-80°	103.3	4.3
80°-90°	24.6	1.0
90°-100°	7.1	0.3
100°-110°	32.6	1.4
110°-120°	94.6	4.0
120°-130°	142.8	6.0
130°-140°	152.9	6.4
140°-150°	146.1	6.1
150°-160°	121.0	5.1
160°-170°	79.5	3.3
170°-180°	27.6	1.2
0°-30°	445.6	18.7
0°-40°	724.1	30.4
0°-60°	1263.3	53.0
0°-90°	1579.7	66.3
90°-120°	134.4	5.6
90°-150°	576.3	24.2
90°-180°	804.0	33.7
0°-180°	2384.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	581	581	581	581	581	
5°	576	579	584	578	577	55
15°	553	557	561	554	551	156
25°	505	513	516	511	502	232
35°	440	448	453	447	436	275
45°	362	373	378	370	358	279
55°	277	286	293	285	273	247
65°	182	191	199	190	180	181
75°	91	97	104	97	90	96
85°	14	19	20	21	17	20
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°	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2	581.2
2.5°	576.8	579.2	579.9	579.4	585.0	580.1	579.9	579.3	578.0
5°	576.4	577.2	578.8	577.4	584.4	577.4	578.0	576.5	577.2
7.5°	572.2	572.9	573.9	573.1	579.5	573.1	573.6	572.0	572.0
10°	567.7	568.5	570.1	568.7	575.6	568.7	568.5	566.9	566.9
12.5°	562.6	563.4	565.0	563.6	570.6	563.6	563.4	561.2	561.8
15°	552.6	554.9	556.6	554.3	561.3	554.3	554.2	552.6	551.0
17.5°	540.7	543.0	545.8	543.4	549.7	542.6	543.4	539.8	538.4
20°	531.1	533.5	537.5	534.5	541.5	533.7	535.1	530.3	529.5
22.5°	520.9	522.7	528.6	525.5	531.9	524.8	525.6	519.5	518.7
25°	504.9	506.4	512.8	510.6	516.0	509.0	511.2	502.5	501.7
27.5°	486.6	488.9	494.7	493.3	499.5	491.7	493.9	484.8	483.4
30°	473.9	476.2	482.6	481.2	487.4	479.6	481.8	471.5	470.7
32.5°	459.9	463.5	469.3	469.1	474.0	466.9	467.8	458.1	456.7
35°	440.5	442.8	448.4	448.5	453.2	447.0	446.8	437.3	435.7
37.5°	418.2	421.3	427.3	428.2	432.7	425.8	424.7	416.1	413.6
40°	402.3	405.4	412.7	413.5	417.4	411.2	409.5	401.5	398.3
42.5°	387.1	390.2	397.4	398.3	402.2	396.6	393.6	386.2	381.8
45°	361.8	365.7	372.9	375.4	378.5	373.0	369.7	360.9	357.8
47.5°	337.6	340.7	348.1	352.1	353.5	349.8	345.5	336.1	332.8
50°	320.4	323.5	331.6	335.5	336.3	333.2	328.4	319.5	315.7
52.5°	302.6	305.7	314.4	318.4	319.2	316.0	311.2	302.4	298.5
55°	276.7	279.8	286.2	292.6	292.6	291.0	285.4	275.8	272.7
57.5°	249.0	252.0	260.0	265.6	265.7	263.5	257.8	249.0	245.8
60°	230.6	232.9	240.9	246.5	247.3	245.7	239.3	230.5	227.4
62.5°	210.2	213.2	221.2	227.4	228.8	226.7	219.6	211.4	207.0
65°	182.1	183.6	190.8	197.2	198.8	196.4	190.0	182.0	179.7
67.5°	154.4	155.3	162.2	168.6	170.3	167.8	161.4	155.9	152.2
70°	136.0	137.5	143.1	149.5	151.9	148.8	142.3	137.5	134.4
72.5°	117.5	119.1	124.7	130.4	132.8	130.3	124.5	119.7	116.6
75°	90.6	91.4	97.0	102.6	104.2	101.8	97.0	93.0	89.8
77.5°	65.2	66.0	71.9	75.2	76.6	75.2	71.4	67.5	65.4
80°	49.3	50.1	54.1	58.1	58.8	58.1	54.9	51.6	50.1
82.5°	34.0	34.8	39.4	42.1	42.3	42.8	40.2	37.6	35.5
85°	14.3	15.1	19.1	21.4	19.9	22.2	20.7	18.3	16.7
87.5°	2.1	2.1	4.0	5.7	5.7	6.3	5.2	4.6	3.5
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)