

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: P511719

Luminaire Tested: **SQW-F-025U-025D-830-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511719  
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-830-1D-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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

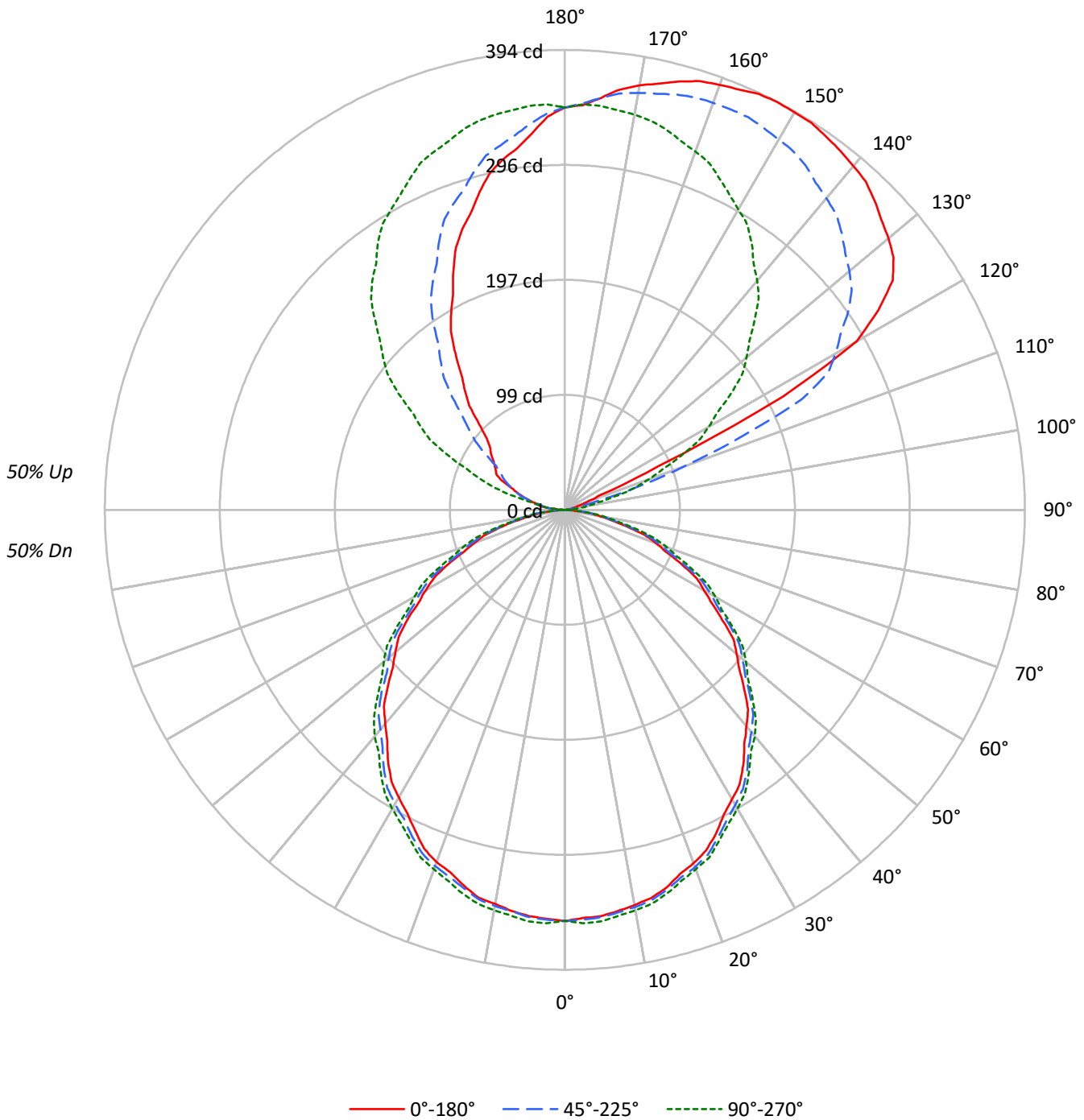
Lumens per Lamp: N/A  
Luminaire Lumens: 1906.2 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 16.3  
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	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°	11373	11373	11373
5°	11326	11478	11326
10°	11270	11424	11240
15°	11209	11367	11146
20°	11069	11261	11034
25°	10906	11142	10803
30°	10675	11026	10605
35°	10506	10841	10395
40°	10201	10678	10083
45°	9933	10367	9805
50°	9651	10173	9510
55°	9278	9914	9278
60°	8880	9610	8880
65°	8420	9207	8420
70°	7827	8715	7733
75°	6812	7873	6937
80°	5597	6471	5783
85°	3149	4520	3853



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	1.7
10°-20°	94.8	5.0
20°-30°	142.0	7.4
30°-40°	168.5	8.8
40°-50°	171.2	9.0
50°-60°	152.5	8.0
60°-70°	113.9	6.0
70°-80°	62.6	3.3
80°-90°	15.0	0.8
90°-100°	8.4	0.4
100°-110°	38.6	2.0
110°-120°	112.1	5.9
120°-130°	169.2	8.9
130°-140°	181.1	9.5
140°-150°	173.1	9.1
150°-160°	143.3	7.5
160°-170°	94.1	4.9
170°-180°	32.6	1.7
0°-30°	270.0	14.2
0°-40°	438.4	23.0
0°-60°	762.2	40.0
0°-90°	953.6	50.0
90°-120°	159.2	8.3
90°-150°	682.6	35.8
90°-180°	953.0	50.0
0°-180°	1906.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	352	352	352	352	352	
5°	349	350	354	350	349	33
15°	335	337	340	335	333	94
25°	306	310	313	309	303	141
35°	266	272	275	270	264	166
45°	218	224	227	222	215	168
55°	165	172	176	170	165	148
65°	110	115	120	115	110	109
75°	55	58	63	58	56	59
85°	8	11	12	12	10	12
90°	1	1	0	1	2	0
95°	3	3	7	11	10	3
105°	10	26	45	29	31	12
115°	88	224	110	55	60	119
125°	343	296	174	82	75	300
135°	375	335	230	136	104	290
145°	390	360	279	196	163	245
155°	393	371	313	254	226	181
165°	380	368	337	300	282	108
175°	354	354	348	332	324	34
180°	345	345	345	345	345	



TEST NUMBER: P511719

CATALOG NUMBER: SQW-F-025U-025D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	352.2	352.2	352.2	352.2	352.2	352.2	352.2	352.2	352.2
2.5°	350.0	351.4	351.5	351.5	354.5	351.5	351.5	351.4	350.7
5°	349.4	349.4	350.3	350.4	354.1	350.4	350.3	349.4	349.4
7.5°	346.8	346.9	347.9	347.8	350.7	346.8	346.9	346.7	346.6
10°	343.7	344.7	345.6	344.8	348.4	343.8	344.7	343.7	342.8
12.5°	340.7	341.6	342.6	341.7	345.4	341.6	341.7	340.7	340.5
15°	335.3	336.2	337.1	336.3	340.0	335.4	335.3	334.3	333.4
17.5°	327.4	329.0	330.4	329.5	333.0	328.6	329.4	327.1	325.7
20°	322.1	323.0	325.8	325.0	327.7	324.0	324.9	321.1	321.1
22.5°	316.0	317.0	319.8	319.0	322.5	318.0	318.9	315.1	314.4
25°	306.1	307.0	309.8	309.0	312.7	308.1	308.9	304.2	303.2
27.5°	294.6	295.7	300.2	299.4	303.2	297.7	298.5	293.8	292.7
30°	286.3	288.1	291.9	291.1	295.7	290.2	291.0	286.2	284.4
32.5°	278.8	280.6	283.7	284.3	287.4	282.6	282.7	278.0	276.1
35°	266.5	268.4	272.2	272.2	275.0	270.4	270.3	265.5	263.7
37.5°	252.6	254.2	258.4	259.6	261.6	257.4	256.3	251.6	249.8
40°	242.0	242.9	248.6	250.6	253.3	246.9	245.8	241.0	239.2
42.5°	232.2	233.9	238.8	240.0	242.0	237.8	236.0	231.3	229.4
45°	217.5	219.4	224.1	226.0	227.0	223.3	222.3	217.5	214.7
47.5°	202.7	204.5	209.3	211.3	212.3	209.5	206.6	202.6	199.8
50°	192.1	194.0	198.7	201.6	202.5	199.7	196.8	192.1	189.3
52.5°	182.3	183.4	188.2	191.7	191.9	189.9	186.3	181.5	179.5
55°	164.8	167.6	172.3	176.1	176.1	174.3	170.5	165.7	164.8
57.5°	149.5	150.7	155.4	159.2	159.3	158.2	154.4	149.7	148.8
60°	137.5	139.3	144.1	147.9	148.8	147.0	143.1	138.4	137.5
62.5°	127.7	128.1	132.8	136.6	137.5	135.7	131.8	127.9	126.2
65°	110.2	111.1	114.9	119.6	120.5	118.7	114.9	111.1	110.2
67.5°	93.4	94.3	97.9	102.5	103.6	101.8	97.0	94.2	93.2
70°	82.9	83.8	86.6	90.4	92.3	90.4	85.7	82.9	81.9
72.5°	71.6	72.5	75.3	79.1	80.2	78.4	74.4	72.3	71.4
75°	54.6	56.5	58.4	62.2	63.1	62.2	58.4	56.5	55.6
77.5°	39.9	40.9	42.8	45.4	46.1	45.4	43.7	40.9	40.9
80°	30.1	31.1	33.0	34.8	34.8	34.8	33.9	31.1	31.1
82.5°	21.1	22.0	23.2	25.8	25.1	25.8	24.9	22.8	22.0
85°	8.5	9.4	11.3	13.2	12.2	13.2	12.2	10.4	10.4
87.5°	0.9	1.7	1.7	3.8	3.8	4.5	3.2	2.5	2.6
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	1.0	1.9
92.5°	0.9	1.7	0.9	1.5	1.5	3.7	3.2	2.5	2.7
95°	2.8	2.8	2.8	6.6	6.6	9.4	11.4	10.4	9.5
97.5°	4.2	4.2	5.5	18.7	14.8	12.6	17.7	18.2	18.2
100°	5.7	5.7	8.5	29.2	20.9	17.2	19.9	22.8	22.8
102.5°	7.2	8.0	13.1	45.8	29.2	21.1	23.0	25.1	25.8
105°	10.4	11.4	25.6	78.0	44.6	28.8	29.4	30.4	31.3
107.5°	15.6	19.3	64.4	111.5	63.2	37.2	39.3	37.6	37.6
110°	20.9	28.3	109.2	132.6	76.9	43.5	44.6	43.7	43.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	33.0	55.3	163.1	150.0	90.6	51.2	49.2	51.2	49.8
115°	88.3	144.0	224.1	174.2	110.1	63.7	55.1	58.9	59.8
117.5°	210.4	251.8	254.1	194.5	130.3	77.7	59.8	64.2	66.1
120°	288.6	295.1	267.8	207.4	142.4	87.6	63.6	66.5	68.4
122.5°	318.3	312.1	279.9	219.6	154.6	99.1	69.7	69.5	71.4
125°	342.8	329.8	296.2	237.8	173.8	117.1	81.7	74.1	75.0
127.5°	354.9	341.9	309.7	252.9	191.8	136.3	96.7	80.5	79.8
130°	361.8	348.8	318.1	263.5	203.2	148.4	107.3	87.3	83.6
132.5°	367.8	355.6	325.7	272.0	214.6	159.8	118.7	95.6	90.4
135°	375.0	363.0	335.2	284.5	229.8	177.8	135.8	110.9	103.5
137.5°	381.5	370.4	343.9	295.9	245.7	193.9	153.1	128.9	120.8
140°	384.5	373.4	348.5	302.8	256.4	205.3	165.2	140.4	132.9
142.5°	387.6	377.2	353.0	309.7	265.5	216.6	177.4	152.5	145.1
145°	390.2	381.0	359.9	319.1	279.1	232.7	196.5	170.7	163.3
147.5°	393.1	383.2	364.2	327.1	290.4	248.6	213.8	189.0	181.7
150°	393.1	384.7	366.5	332.5	297.2	259.1	226.0	201.1	194.6
152.5°	393.8	384.7	368.8	337.1	304.8	268.9	237.4	213.3	207.6
155°	393.1	384.7	371.2	343.0	313.3	281.8	254.5	231.5	226.0
157.5°	389.7	384.3	371.2	346.6	322.1	293.1	269.3	251.2	243.4
160°	387.4	382.7	371.2	348.9	326.6	300.6	279.1	261.9	256.4
162.5°	385.1	380.5	370.5	351.2	331.2	307.4	287.5	271.1	267.0
165°	379.8	376.1	368.4	352.8	337.1	316.6	300.0	285.7	282.0
167.5°	373.9	371.3	365.0	353.9	341.4	325.5	311.0	299.9	295.7
170°	369.3	367.5	362.7	353.9	343.7	330.7	317.1	307.6	304.8
172.5°	363.3	362.2	359.7	352.5	345.2	334.5	324.0	315.2	312.4
175°	354.2	354.2	354.2	351.2	347.5	340.1	332.3	325.6	323.8
177.5°	346.9	347.7	348.5	347.7	347.7	344.0	340.1	336.3	337.1
180°	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7	344.7

(END OF REPORT)