

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: P511721

Luminaire Tested: **SQW-F-025U-025D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511721
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-840-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

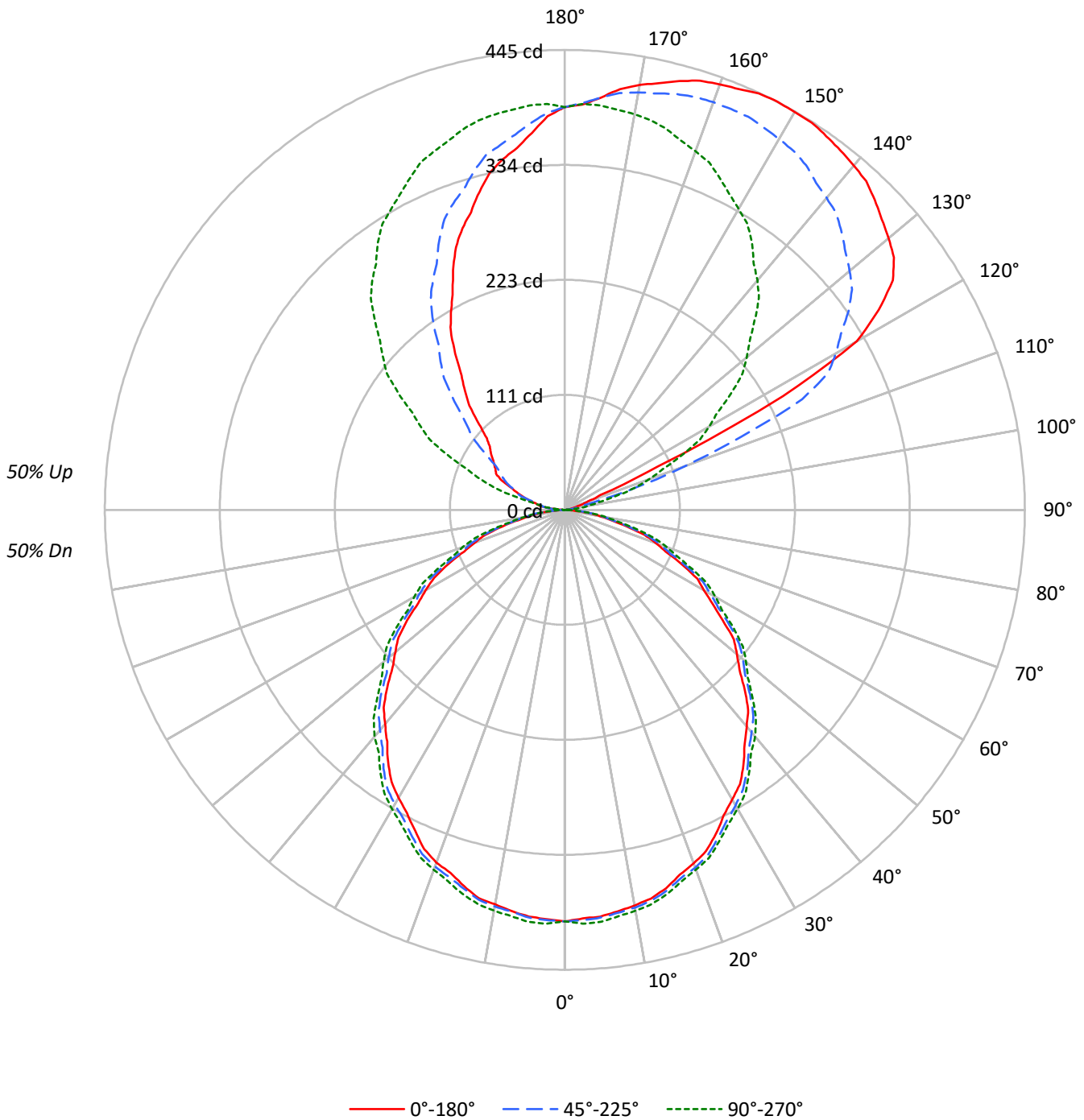
Lumens per Lamp: N/A
Luminaire Lumens: 2155.2 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

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°	12859	12859	12859
5°	12804	12976	12804
10°	12742	12919	12709
15°	12670	12851	12600
20°	12512	12732	12478
25°	12328	12595	12214
30°	12070	12465	11992
35°	11878	12256	11751
40°	11533	12073	11398
45°	11234	11718	11088
50°	10912	11499	10751
55°	10489	11209	10489
60°	10043	10863	10043
65°	9521	10415	9521
70°	8847	9847	8743
75°	7711	8896	7835
80°	6341	7327	6527
85°	3557	5113	4335



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	1.7
10°-20°	107.1	5.0
20°-30°	160.5	7.4
30°-40°	190.5	8.8
40°-50°	193.5	9.0
50°-60°	172.5	8.0
60°-70°	128.7	6.0
70°-80°	70.8	3.3
80°-90°	16.9	0.8
90°-100°	9.5	0.4
100°-110°	43.7	2.0
110°-120°	126.7	5.9
120°-130°	191.3	8.9
130°-140°	204.8	9.5
140°-150°	195.7	9.1
150°-160°	162.0	7.5
160°-170°	106.4	4.9
170°-180°	36.9	1.7
0°-30°	305.2	14.2
0°-40°	495.7	23.0
0°-60°	861.7	40.0
0°-90°	1078.1	50.0
90°-120°	180.0	8.4
90°-150°	771.7	35.8
90°-180°	1077.0	50.0
0°-180°	2155.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	398	398	398	398	398	
5°	395	396	400	396	395	37
15°	379	381	384	379	377	107
25°	346	350	354	349	343	159
35°	301	308	311	306	298	188
45°	246	253	257	251	243	190
55°	186	195	199	193	186	167
65°	125	130	136	130	125	123
75°	62	66	71	66	63	66
85°	10	13	14	14	12	14
90°	1	1	0	1	2	1
95°	3	3	8	13	11	3
105°	12	29	50	33	35	14
115°	100	253	124	62	68	134
125°	388	335	196	92	85	339
135°	424	379	260	154	117	328
145°	441	407	316	222	185	277
155°	444	420	354	288	256	205
165°	429	416	381	339	319	122
175°	400	400	393	376	366	39
180°	390	390	390	390	390	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2	398.2
2.5°	395.7	397.3	397.4	397.4	400.8	397.4	397.4	397.3	396.5
5°	395.0	395.0	396.1	396.2	400.3	396.2	396.1	395.0	395.0
7.5°	392.0	392.2	393.3	393.2	396.5	392.1	392.2	392.0	391.8
10°	388.6	389.7	390.8	389.8	394.0	388.7	389.7	388.6	387.6
12.5°	385.2	386.3	387.4	386.4	390.5	386.2	386.3	385.2	385.0
15°	379.0	380.1	381.2	380.2	384.4	379.2	379.0	378.0	376.9
17.5°	370.1	372.0	373.5	372.5	376.5	371.5	372.4	369.9	368.2
20°	364.1	365.2	368.4	367.4	370.5	366.4	367.3	363.1	363.1
22.5°	357.3	358.4	361.6	360.6	364.6	359.6	360.5	356.2	355.4
25°	346.0	347.1	350.3	349.3	353.5	348.3	349.2	343.9	342.8
27.5°	333.1	334.3	339.4	338.5	342.8	336.6	337.5	332.2	330.9
30°	323.7	325.8	330.1	329.1	334.3	328.1	329.0	323.6	321.6
32.5°	315.2	317.2	320.7	321.4	325.0	319.5	319.6	314.3	312.2
35°	301.3	303.4	307.7	307.8	310.9	305.7	305.6	300.2	298.1
37.5°	285.6	287.4	292.2	293.5	295.8	291.0	289.8	284.5	282.4
40°	273.6	274.7	281.1	283.3	286.4	279.1	277.9	272.5	270.4
42.5°	262.6	264.4	270.0	271.3	273.6	268.8	266.8	261.5	259.4
45°	246.0	248.0	253.4	255.6	256.6	252.4	251.3	245.9	242.8
47.5°	229.1	231.2	236.6	239.0	240.0	236.9	233.6	229.1	225.9
50°	217.2	219.3	224.7	227.9	228.9	225.8	222.5	217.1	214.0
52.5°	206.1	207.4	212.7	216.8	217.0	214.7	210.6	205.2	202.9
55°	186.3	189.5	194.8	199.1	199.1	197.0	192.7	187.4	186.3
57.5°	169.1	170.3	175.7	179.9	180.2	178.9	174.6	169.3	168.2
60°	155.5	157.5	162.9	167.2	168.2	166.1	161.8	156.5	155.5
62.5°	144.4	144.8	150.1	154.4	155.5	153.4	149.1	144.5	142.7
65°	124.6	125.6	129.9	135.2	136.3	134.2	129.9	125.6	124.6
67.5°	105.6	106.7	110.7	115.9	117.1	115.0	109.7	106.5	105.4
70°	93.7	94.7	98.0	102.3	104.3	102.3	96.9	93.7	92.6
72.5°	80.9	82.0	85.2	89.5	90.7	88.6	84.1	81.7	80.7
75°	61.8	63.8	66.0	70.3	71.3	70.3	66.0	63.9	62.8
77.5°	45.1	46.2	48.3	51.3	52.2	51.3	49.4	46.2	46.2
80°	34.1	35.1	37.3	39.4	39.4	39.4	38.3	35.1	35.1
82.5°	23.9	24.9	26.2	29.2	28.3	29.2	28.1	25.7	24.9
85°	9.6	10.6	12.8	14.9	13.8	14.9	13.8	11.7	11.7
87.5°	1.1	1.9	1.9	4.3	4.3	5.1	3.6	2.8	3.0
90°	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.1
92.5°	1.1	1.9	1.1	1.7	1.7	4.2	3.6	2.8	3.0
95°	3.2	3.2	3.2	7.5	7.5	10.7	12.9	11.8	10.7
97.5°	4.7	4.7	6.2	21.2	16.7	14.2	20.0	20.6	20.6
100°	6.4	6.4	9.7	33.1	23.6	19.4	22.5	25.8	25.8
102.5°	8.2	9.0	14.8	51.7	33.1	23.8	26.0	28.4	29.2
105°	11.8	12.9	29.0	88.2	50.5	32.6	33.3	34.4	35.4
107.5°	17.6	21.8	72.8	126.1	71.5	42.1	44.4	42.5	42.5
110°	23.6	32.0	123.5	149.9	87.0	49.2	50.5	49.4	49.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	37.4	62.5	184.4	169.6	102.4	57.9	55.6	57.9	56.3
115°	99.8	162.8	253.3	196.9	124.5	72.0	62.3	66.6	67.6
117.5°	237.9	284.7	287.3	219.9	147.3	87.9	67.6	72.6	74.7
120°	326.3	333.7	302.7	234.5	161.0	99.1	71.9	75.2	77.3
122.5°	359.8	352.9	316.5	248.2	174.8	112.0	78.8	78.6	80.7
125°	387.5	372.8	334.9	268.9	196.4	132.4	92.3	83.8	84.8
127.5°	401.3	386.6	350.2	285.9	216.8	154.1	109.3	91.0	90.2
130°	409.0	394.3	359.6	298.0	229.7	167.8	121.3	98.7	94.5
132.5°	415.9	402.0	368.2	307.5	242.6	180.7	134.2	108.1	102.2
135°	424.0	410.4	378.9	321.7	259.8	201.0	153.5	125.4	117.0
137.5°	431.3	418.7	388.8	334.5	277.8	219.2	173.0	145.8	136.5
140°	434.8	422.2	394.0	342.3	289.8	232.1	186.8	158.7	150.3
142.5°	438.2	426.4	399.1	350.1	300.1	244.9	200.5	172.4	164.0
145°	441.2	430.7	406.9	360.7	315.6	263.1	222.2	193.0	184.6
147.5°	444.4	433.3	411.8	369.8	328.3	281.0	241.7	213.7	205.5
150°	444.4	435.0	414.4	375.9	336.0	293.0	255.5	227.4	220.1
152.5°	445.3	435.0	416.9	381.1	344.6	304.1	268.4	241.2	234.7
155°	444.4	435.0	419.7	387.8	354.3	318.6	287.7	261.8	255.5
157.5°	440.6	434.5	419.7	391.8	364.1	331.4	304.4	284.1	275.2
160°	438.0	432.7	419.7	394.5	369.3	339.9	315.6	296.1	289.8
162.5°	435.4	430.2	418.9	397.1	374.4	347.6	325.1	306.5	301.9
165°	429.4	425.2	416.5	398.9	381.1	358.0	339.2	323.0	318.8
167.5°	422.7	419.8	412.6	400.1	386.0	368.0	351.7	339.1	334.3
170°	417.6	415.5	410.1	400.1	388.6	373.9	358.5	347.7	344.6
172.5°	410.7	409.5	406.6	398.5	390.3	378.1	366.3	356.3	353.2
175°	400.4	400.4	400.4	397.1	392.9	384.5	375.7	368.2	366.1
177.5°	392.3	393.1	394.0	393.1	393.1	388.9	384.5	380.2	381.1
180°	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7	389.7

(END OF REPORT)