

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: P511723

Luminaire Tested: **SQW-F-025U-025D-935-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511723
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-935-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

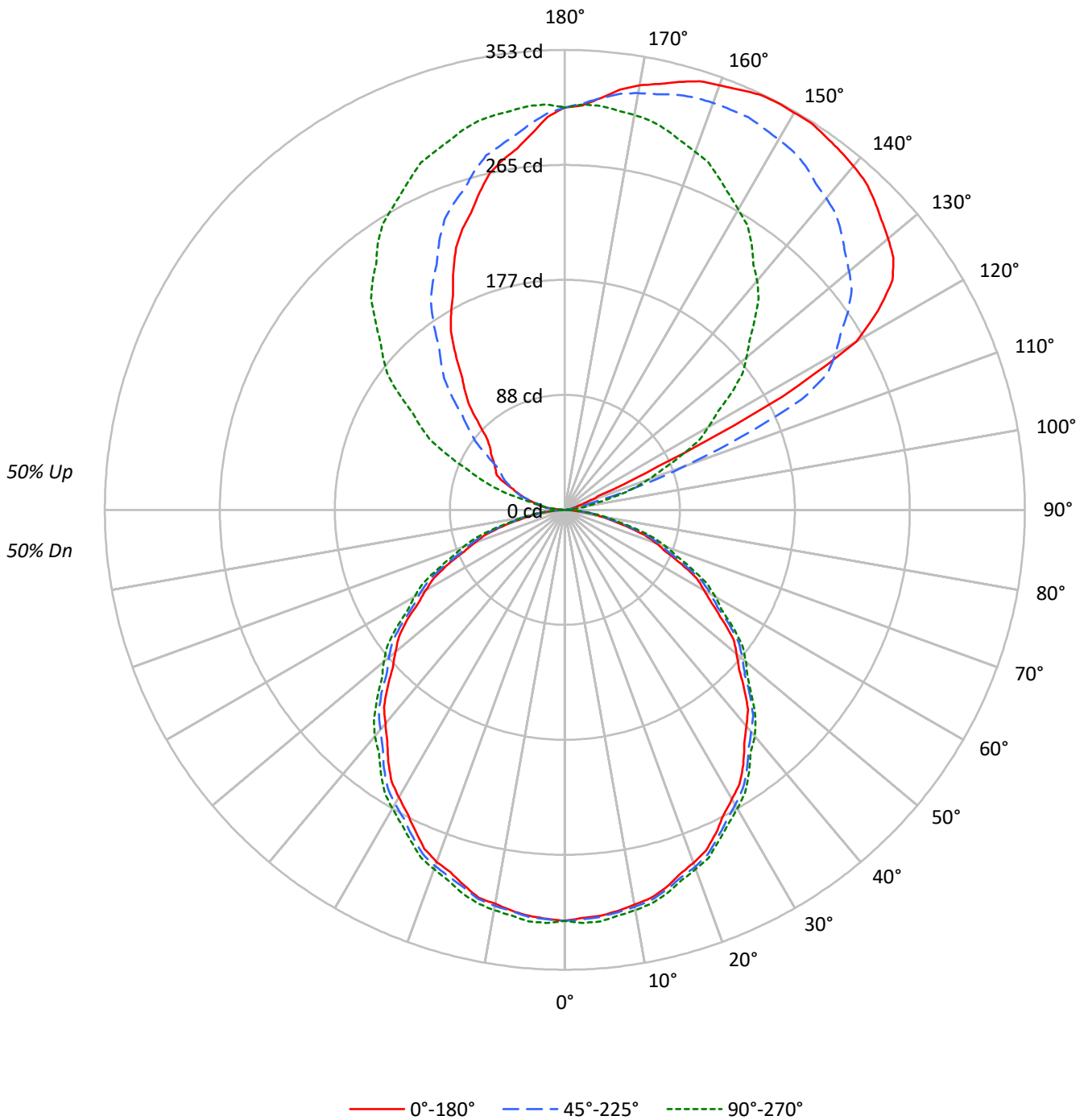
Lumens per Lamp: N/A
Luminaire Lumens: 1707.1 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

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	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°	10185	10185	10185
5°	10143	10279	10143
10°	10093	10230	10067
15°	10036	10180	9979
20°	9911	10086	9883
25°	9766	9976	9677
30°	9561	9874	9497
35°	9410	9709	9307
40°	9135	9565	9029
45°	8896	9280	8782
50°	8641	9108	8515
55°	8310	8878	8310
60°	7950	8609	7950
65°	7542	8245	7542
70°	7006	7799	6930
75°	6101	7049	6213
80°	5021	5802	5170
85°	2816	4076	3446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	1.7
10°-20°	84.9	5.0
20°-30°	127.1	7.4
30°-40°	150.9	8.8
40°-50°	153.3	9.0
50°-60°	136.6	8.0
60°-70°	102.0	6.0
70°-80°	56.1	3.3
80°-90°	13.4	0.8
90°-100°	7.6	0.4
100°-110°	34.6	2.0
110°-120°	100.4	5.9
120°-130°	151.5	8.9
130°-140°	162.2	9.5
140°-150°	155.0	9.1
150°-160°	128.3	7.5
160°-170°	84.3	4.9
170°-180°	29.2	1.7
0°-30°	241.8	14.2
0°-40°	392.6	23.0
0°-60°	682.5	40.0
0°-90°	854.0	50.0
90°-120°	142.6	8.4
90°-150°	611.3	35.8
90°-180°	853.0	50.0
0°-180°	1707.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	315	315	315	315	315	
5°	313	314	317	314	313	30
15°	300	302	304	300	298	84
25°	274	278	280	277	272	126
35°	239	244	246	242	236	149
45°	195	201	203	199	192	150
55°	148	154	158	153	148	132
65°	99	103	108	103	99	98
75°	49	52	56	52	50	53
85°	8	10	11	11	9	11
90°	1	1	0	1	2	0
95°	3	3	6	10	8	3
105°	9	23	40	26	28	11
115°	79	201	99	49	54	106
125°	307	265	156	73	67	269
135°	336	300	206	122	93	259
145°	350	322	250	176	146	219
155°	352	332	281	228	202	162
165°	340	330	302	269	252	97
175°	317	317	311	298	290	31
180°	309	309	309	309	309	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4
2.5°	313.4	314.7	314.7	314.8	317.4	314.8	314.7	314.7	314.1
5°	312.9	312.9	313.7	313.8	317.1	313.8	313.7	312.9	312.9
7.5°	310.5	310.7	311.5	311.4	314.1	310.6	310.7	310.5	310.4
10°	307.8	308.6	309.5	308.7	312.0	307.9	308.7	307.8	307.0
12.5°	305.1	306.0	306.8	306.0	309.3	305.9	306.0	305.1	305.0
15°	300.2	301.1	301.9	301.2	304.5	300.3	300.2	299.4	298.5
17.5°	293.2	294.6	295.8	295.1	298.2	294.3	295.0	293.0	291.6
20°	288.4	289.3	291.8	291.0	293.5	290.2	291.0	287.6	287.6
22.5°	283.0	283.9	286.4	285.6	288.8	284.8	285.6	282.2	281.5
25°	274.1	274.9	277.5	276.7	280.0	275.9	276.6	272.4	271.6
27.5°	263.8	264.8	268.9	268.1	271.6	266.6	267.3	263.1	262.1
30°	256.4	258.0	261.4	260.7	264.8	259.9	260.6	256.3	254.7
32.5°	249.6	251.3	254.0	254.6	257.4	253.1	253.2	248.9	247.3
35°	238.7	240.3	243.7	243.8	246.3	242.1	242.0	237.8	236.1
37.5°	226.2	227.7	231.4	232.5	234.3	230.5	229.6	225.3	223.7
40°	216.7	217.6	222.6	224.4	226.9	221.1	220.1	215.9	214.2
42.5°	208.0	209.5	213.9	214.9	216.7	212.9	211.3	207.1	205.4
45°	194.8	196.5	200.7	202.4	203.2	200.0	199.0	194.8	192.3
47.5°	181.5	183.1	187.4	189.3	190.1	187.6	185.0	181.4	179.0
50°	172.0	173.7	177.9	180.5	181.3	178.8	176.3	172.0	169.5
52.5°	163.3	164.3	168.5	171.7	171.9	170.1	166.8	162.6	160.7
55°	147.6	150.1	154.3	157.7	157.7	156.1	152.6	148.4	147.6
57.5°	133.9	134.9	139.2	142.5	142.7	141.7	138.3	134.1	133.3
60°	123.1	124.8	129.0	132.4	133.3	131.6	128.2	124.0	123.1
62.5°	114.4	114.7	118.9	122.3	123.1	121.5	118.1	114.5	113.0
65°	98.7	99.5	102.9	107.1	107.9	106.3	102.9	99.5	98.7
67.5°	83.7	84.5	87.7	91.8	92.8	91.1	86.9	84.3	83.5
70°	74.2	75.0	77.6	81.0	82.6	81.0	76.7	74.2	73.4
72.5°	64.1	64.9	67.5	70.9	71.9	70.2	66.6	64.8	63.9
75°	48.9	50.6	52.3	55.7	56.5	55.7	52.3	50.6	49.8
77.5°	35.8	36.6	38.3	40.7	41.3	40.7	39.1	36.6	36.6
80°	27.0	27.8	29.5	31.2	31.2	31.2	30.4	27.8	27.8
82.5°	18.9	19.7	20.7	23.1	22.4	23.1	22.3	20.4	19.7
85°	7.6	8.4	10.1	11.8	11.0	11.8	11.0	9.3	9.3
87.5°	0.8	1.5	1.5	3.4	3.4	4.0	2.9	2.2	2.4
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	0.9	1.7
92.5°	0.9	1.5	0.9	1.4	1.4	3.4	2.9	2.2	2.4
95°	2.6	2.6	2.6	6.0	6.0	8.4	10.2	9.3	8.5
97.5°	3.7	3.7	4.9	16.8	13.3	11.3	15.8	16.3	16.3
100°	5.1	5.1	7.7	26.2	18.7	15.4	17.9	20.4	20.4
102.5°	6.5	7.1	11.7	41.0	26.2	18.9	20.6	22.5	23.1
105°	9.4	10.2	23.0	69.9	40.0	25.8	26.4	27.2	28.1
107.5°	13.9	17.3	57.6	99.9	56.6	33.4	35.2	33.7	33.7
110°	18.7	25.4	97.8	118.8	68.9	38.9	40.0	39.1	39.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	29.6	49.5	146.1	134.3	81.1	45.9	44.0	45.9	44.6
115°	79.1	129.0	200.7	156.0	98.6	57.1	49.3	52.7	53.6
117.5°	188.4	225.5	227.5	174.2	116.7	69.6	53.6	57.5	59.2
120°	258.5	264.3	239.8	185.7	127.5	78.5	57.0	59.6	61.2
122.5°	285.0	279.5	250.7	196.6	138.4	88.7	62.4	62.3	63.9
125°	307.0	295.3	265.3	213.0	155.6	104.9	73.1	66.3	67.2
127.5°	317.8	306.2	277.4	226.5	171.8	122.0	86.6	72.1	71.4
130°	324.0	312.3	284.8	236.0	182.0	132.9	96.1	78.2	74.8
132.5°	329.4	318.4	291.6	243.5	192.2	143.1	106.3	85.6	80.9
135°	335.9	325.1	300.2	254.8	205.8	159.2	121.6	99.3	92.7
137.5°	341.6	331.7	308.0	264.9	220.1	173.7	137.1	115.5	108.2
140°	344.4	334.4	312.1	271.1	229.6	183.9	147.9	125.7	119.0
142.5°	347.1	337.8	316.1	277.3	237.7	194.0	158.8	136.6	129.9
145°	349.5	341.2	322.3	285.7	250.0	208.4	176.0	152.9	146.2
147.5°	352.0	343.2	326.2	292.9	260.0	222.6	191.5	169.2	162.7
150°	352.0	344.5	328.2	297.7	266.1	232.1	202.4	180.1	174.3
152.5°	352.7	344.6	330.3	301.9	272.9	240.8	212.6	191.0	185.9
155°	352.0	344.5	332.5	307.2	280.6	252.3	227.9	207.4	202.4
157.5°	349.0	344.1	332.5	310.4	288.4	262.5	241.1	225.0	218.0
160°	346.9	342.8	332.5	312.5	292.5	269.2	250.0	234.6	229.6
162.5°	344.9	340.7	331.8	314.5	296.6	275.3	257.5	242.8	239.1
165°	340.1	336.8	329.9	316.0	301.9	283.6	268.7	255.9	252.5
167.5°	334.8	332.5	326.8	316.9	305.8	291.5	278.6	268.6	264.8
170°	330.8	329.1	324.8	316.9	307.8	296.2	284.0	275.4	272.9
172.5°	325.3	324.3	322.1	315.6	309.2	299.5	290.1	282.2	279.7
175°	317.2	317.2	317.2	314.5	311.2	304.6	297.6	291.6	289.9
177.5°	310.7	311.4	312.1	311.4	311.4	308.0	304.6	301.2	301.9
180°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7	308.7

(END OF REPORT)