

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: P522521

Luminaire Tested: **SQW-F-050U-050D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522521
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-050U-050D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

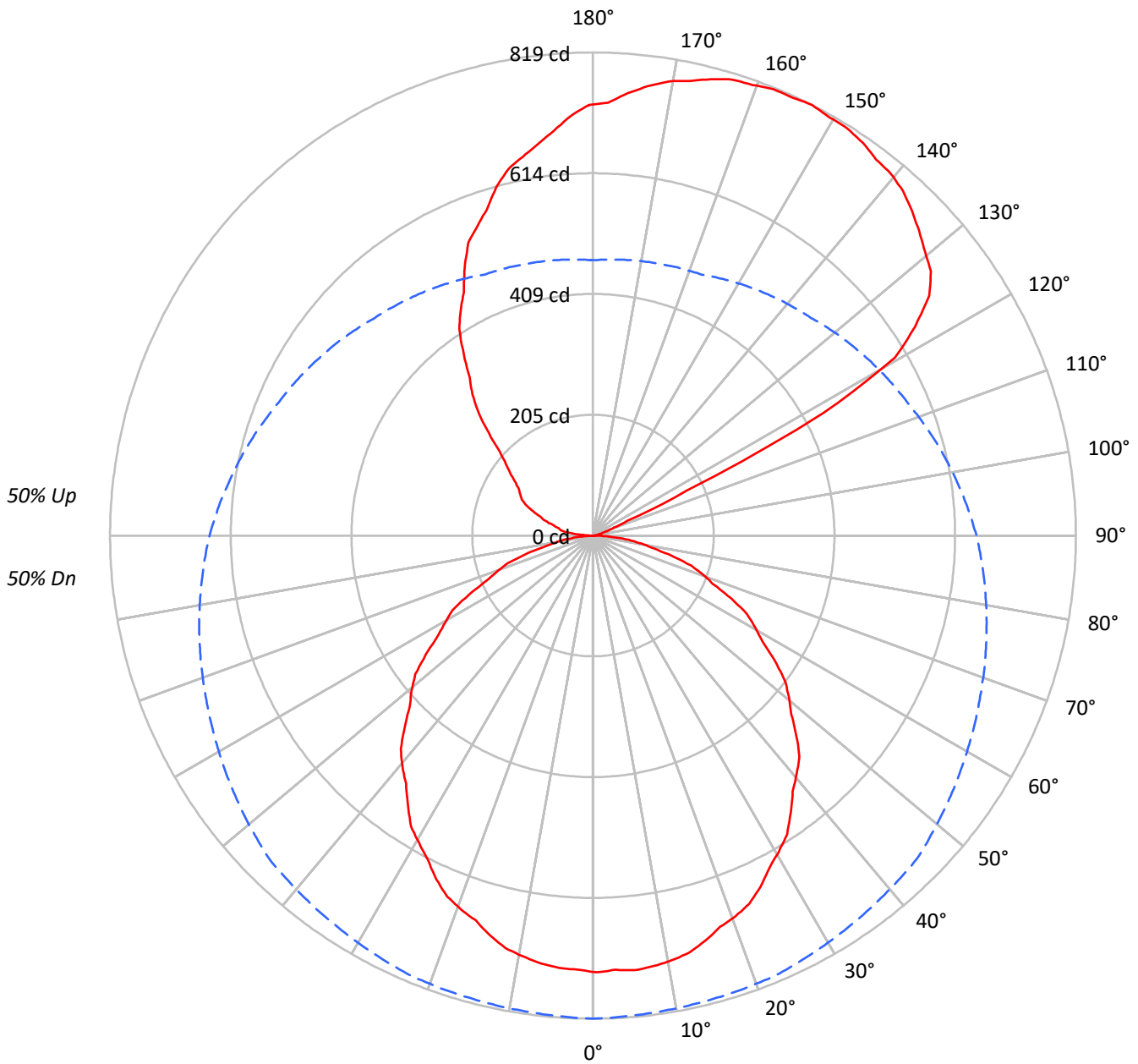
Lumens per Lamp: N/A
Luminaire Lumens: 4088.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.5
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



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° Vertical



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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	84	84	84	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	44	42	40	35
3	81	71	64	58	74	66	60	54	56	51	47	47	43	40	39	36	34	30
4	74	63	55	49	68	59	51	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	39	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	20	17
8	54	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	22	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11946	11946	11946
5°	11992	12042	11909
10°	11998	12047	11847
15°	11908	12028	11687
20°	11838	11892	11541
25°	11749	11749	11405
30°	11574	11669	11158
35°	11375	11515	10914
40°	11198	11327	10705
45°	11038	11154	10387
50°	10814	10967	10150
55°	10514	10716	9799
60°	10188	10485	9368
65°	9838	10227	8905
70°	9323	9611	8167
75°	8634	8696	7367
80°	7662	7764	5960
85°	6039	5854	4150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.7
10°-20°	200.0	4.9
20°-30°	300.8	7.4
30°-40°	359.1	8.8
40°-50°	368.7	9.0
50°-60°	331.4	8.1
60°-70°	251.2	6.1
70°-80°	141.7	3.5
80°-90°	36.8	0.9
90°-100°	18.4	0.5
100°-110°	81.8	2.0
110°-120°	235.0	5.7
120°-130°	357.9	8.8
130°-140°	388.5	9.5
140°-150°	371.5	9.1
150°-160°	306.0	7.5
160°-170°	200.3	4.9
170°-180°	69.3	1.7
0°-30°	570.9	14.0
0°-40°	929.9	22.7
0°-60°	1630.0	39.9
0°-90°	2059.7	50.4
90°-120°	335.1	8.2
90°-150°	1452.9	35.5
90°-180°	2029.0	49.6
0°-180°	4088.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	740	740	740	740	740	
5°	740	739	743	738	735	70
15°	712	716	720	703	699	201
25°	660	662	660	650	640	303
35°	577	586	584	569	554	361
45°	483	490	488	470	455	373
55°	374	381	381	362	348	334
65°	258	265	268	244	233	254
75°	138	140	139	126	118	147
85°	33	36	32	26	22	38
90°	0	0	0	0	0	1
95°	3	4	13	29	28	4
105°	18	50	94	65	69	21
115°	176	463	237	111	124	243
125°	700	609	378	187	159	614
135°	771	698	501	310	247	596
145°	807	752	597	441	377	506
155°	816	782	669	554	505	377
165°	798	778	717	644	613	226
175°	752	754	739	706	689	73
180°	730	730	730	730	730	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9	739.9
2.5°	736.7	739.9	739.1	738.5	745.6	739.3	739.9	739.0	735.9
5°	739.9	737.9	738.9	738.0	743.0	737.0	737.9	734.8	734.8
7.5°	736.7	733.5	734.4	733.7	738.1	731.3	730.2	726.4	730.0
10°	731.8	727.8	728.7	728.9	734.8	724.9	723.6	720.6	722.6
12.5°	725.3	722.9	723.0	721.6	730.0	716.8	716.3	714.1	714.5
15°	712.4	715.4	715.5	708.6	719.6	703.7	703.3	703.2	699.2
17.5°	697.2	701.4	704.9	696.1	703.5	690.2	689.9	686.3	681.5
20°	689.0	690.0	695.1	687.1	692.1	681.1	680.9	671.7	671.7
22.5°	677.6	677.8	683.7	674.9	679.9	668.9	669.5	658.7	659.5
25°	659.5	658.5	661.6	655.5	659.5	649.6	650.4	639.2	640.2
27.5°	637.1	638.3	643.0	633.8	639.8	627.6	628.0	617.8	616.4
30°	620.8	622.8	630.0	620.0	625.9	613.0	611.7	601.4	598.5
32.5°	603.7	605.7	612.9	605.3	610.5	598.3	595.4	583.5	581.4
35°	577.1	579.1	586.2	582.2	584.2	572.3	568.9	556.7	553.7
37.5°	550.0	552.0	557.9	555.1	556.9	544.4	539.6	528.8	526.6
40°	531.3	533.3	538.4	536.4	537.4	526.4	520.1	510.9	507.9
42.5°	513.4	514.6	518.9	515.3	517.8	507.7	500.5	491.3	486.7
45°	483.4	483.4	489.6	485.6	488.5	478.6	470.2	459.9	454.9
47.5°	452.5	450.7	457.8	456.4	457.8	447.1	438.7	428.0	424.4
50°	430.5	429.5	436.6	437.6	436.6	426.7	418.3	406.1	404.1
52.5°	406.9	408.3	413.8	414.8	414.6	404.7	395.5	384.1	382.1
55°	373.5	375.5	380.7	381.6	380.7	371.7	362.3	350.1	348.1
57.5°	338.3	343.1	347.5	348.5	349.1	339.5	327.9	318.7	314.5
60°	315.5	319.5	324.7	325.7	324.7	316.7	304.3	295.0	290.1
62.5°	292.7	295.1	300.2	302.8	300.2	292.3	279.9	271.5	269.7
65°	257.5	259.5	264.6	266.7	267.7	256.7	244.3	237.1	233.1
67.5°	219.4	221.8	224.7	227.6	228.8	217.3	207.0	199.4	195.0
70°	197.5	197.5	199.5	201.6	203.6	193.6	184.2	175.0	173.0
72.5°	173.8	173.8	176.7	177.9	178.3	169.2	160.6	152.3	151.9
75°	138.4	138.4	140.5	141.4	139.4	133.5	126.2	119.1	118.1
77.5°	105.2	104.6	106.5	107.3	106.3	99.5	92.4	87.5	86.1
80°	82.4	83.4	84.5	84.5	83.5	77.5	71.2	67.1	64.1
82.5°	61.3	62.3	64.1	64.1	61.5	57.9	52.5	47.6	47.0
85°	32.6	32.6	35.6	34.5	31.6	29.6	26.5	22.4	22.4
87.5°	8.1	8.9	10.6	12.9	9.0	9.8	5.7	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.5	0.5	1.1	1.7	2.7	10.2	11.4	10.3	9.8
95°	2.7	2.7	4.1	12.9	12.9	20.9	28.6	27.9	27.9
97.5°	6.1	6.8	9.5	39.4	29.4	28.6	40.8	44.9	45.3
100°	8.8	9.5	15.0	64.1	43.5	36.9	43.5	53.1	55.1
102.5°	12.1	13.3	23.7	101.3	61.5	44.2	51.1	58.0	60.0
105°	18.4	20.4	49.7	169.7	93.9	58.6	64.6	68.0	68.7
107.5°	27.6	35.1	135.9	238.6	133.2	77.6	81.1	83.4	84.2
110°	37.4	53.4	236.0	280.3	162.6	92.1	89.8	95.9	94.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	63.0	109.8	346.5	314.4	191.9	109.2	97.9	107.9	108.7
115°	176.2	302.5	463.2	363.0	236.7	138.9	110.9	120.5	124.5
117.5°	442.1	526.0	524.7	408.0	279.7	173.9	126.4	131.0	135.5
120°	594.4	607.1	555.7	438.4	307.4	199.0	139.4	137.5	141.5
122.5°	651.0	640.8	579.1	465.1	335.7	225.2	156.3	144.5	148.0
125°	699.9	679.9	609.4	503.2	377.5	263.8	187.0	159.8	159.2
127.5°	726.9	706.1	639.1	536.2	415.8	303.8	222.0	181.5	175.3
130°	740.0	720.7	659.7	556.5	441.4	331.0	247.6	200.4	191.1
132.5°	755.8	734.9	674.4	577.2	465.9	356.6	273.1	223.2	212.3
135°	771.3	752.0	698.5	604.3	500.6	394.2	310.1	260.9	246.9
137.5°	785.2	767.5	720.5	625.6	531.9	431.2	349.3	301.3	284.3
140°	794.4	775.1	729.8	642.0	550.9	454.5	375.4	327.5	314.2
142.5°	797.7	785.8	739.6	655.8	572.1	476.8	401.6	352.0	339.8
145°	807.3	799.3	751.6	672.3	597.2	510.0	441.4	390.1	376.8
147.5°	813.6	801.6	762.6	690.1	621.6	539.9	477.6	428.3	416.0
150°	814.1	804.8	771.3	701.2	638.0	561.5	499.9	453.4	442.1
152.5°	818.5	807.0	775.6	710.5	649.9	579.8	522.2	478.9	466.6
155°	815.5	807.5	782.2	722.4	668.6	603.4	553.6	515.3	504.7
157.5°	815.5	805.6	783.0	731.8	686.5	629.3	583.0	547.6	539.6
160°	810.0	806.1	783.5	738.3	695.8	643.9	602.6	570.4	559.8
162.5°	807.9	801.2	784.6	742.8	703.9	655.8	619.5	589.0	581.0
165°	798.5	792.5	778.1	744.8	716.9	677.0	644.1	616.8	612.8
167.5°	787.7	783.1	773.6	748.1	725.4	692.9	665.2	643.2	637.7
170°	780.1	772.8	769.2	749.7	729.8	702.5	678.8	658.9	652.9
172.5°	767.1	766.1	763.3	745.6	733.6	711.1	691.3	673.1	669.3
175°	751.6	751.6	753.6	742.6	738.6	720.0	706.0	695.0	689.0
177.5°	733.6	734.1	738.5	738.0	738.5	727.9	723.8	713.4	712.4
180°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8

(END OF REPORT)