

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: P522520

Luminaire Tested: **SQW-F-050U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522520
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

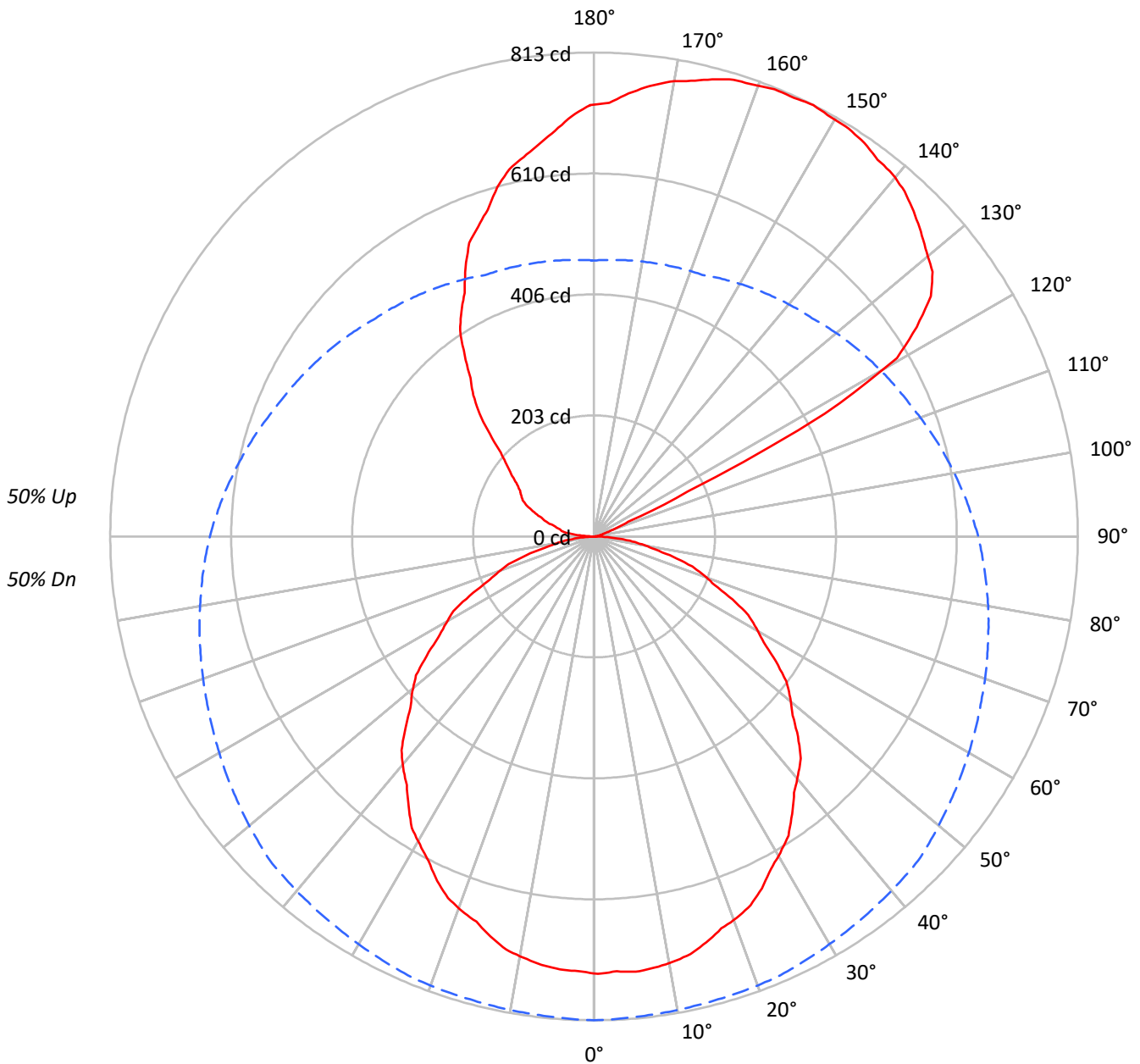
Lumens per Lamp: N/A
Luminaire Lumens: 4059.5 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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°	11862	11862	11862
5°	11908	11958	11827
10°	11914	11963	11765
15°	11826	11943	11606
20°	11756	11808	11460
25°	11667	11667	11325
30°	11494	11587	11080
35°	11294	11434	10837
40°	11120	11247	10629
45°	10962	11077	10316
50°	10738	10891	10078
55°	10441	10640	9728
60°	10117	10411	9300
65°	9769	10155	8840
70°	9257	9541	8110
75°	8571	8640	7311
80°	7615	7708	5923
85°	5984	5798	4113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.7
10°-20°	198.6	4.9
20°-30°	298.7	7.4
30°-40°	356.5	8.8
40°-50°	366.1	9.0
50°-60°	329.0	8.1
60°-70°	249.5	6.1
70°-80°	140.7	3.5
80°-90°	36.5	0.9
90°-100°	18.3	0.5
100°-110°	81.2	2.0
110°-120°	233.3	5.7
120°-130°	355.3	8.8
130°-140°	385.7	9.5
140°-150°	368.9	9.1
150°-160°	303.9	7.5
160°-170°	198.9	4.9
170°-180°	68.8	1.7
0°-30°	566.9	14.0
0°-40°	923.4	22.7
0°-60°	1618.5	39.9
0°-90°	2045.2	50.4
90°-120°	332.8	8.2
90°-150°	1442.7	35.5
90°-180°	2014.0	49.6
0°-180°	4059.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	735	735	735	735	735	
5°	735	734	738	733	730	70
15°	708	710	714	698	694	200
25°	655	657	655	646	636	301
35°	573	582	580	565	550	359
45°	480	486	485	467	452	370
55°	371	378	378	360	346	331
65°	256	263	266	243	231	252
75°	137	140	138	125	117	146
85°	32	35	31	26	22	38
90°	0	0	0	0	0	1
95°	3	4	13	28	28	4
105°	18	49	93	64	68	21
115°	175	460	235	110	124	242
125°	695	605	375	186	158	610
135°	766	694	497	308	245	591
145°	802	746	593	438	374	502
155°	810	777	664	550	501	375
165°	793	773	712	640	608	225
175°	746	748	734	701	684	72
180°	725	725	725	725	725	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7
2.5°	731.5	734.7	733.9	733.3	740.4	734.1	734.7	733.9	730.7
5°	734.7	732.8	733.7	732.8	737.8	731.8	732.7	729.7	729.7
7.5°	731.5	728.3	729.3	728.6	732.9	726.2	725.0	721.3	724.8
10°	726.7	722.7	723.6	723.8	729.7	719.8	718.6	715.6	717.6
12.5°	720.2	717.8	718.0	716.5	724.8	711.8	711.3	709.1	709.5
15°	707.5	710.4	710.5	703.7	714.5	698.7	698.4	698.3	694.3
17.5°	692.3	696.4	700.0	691.2	698.6	685.3	685.0	681.5	676.7
20°	684.2	685.2	690.3	682.3	687.2	676.4	676.1	667.0	667.0
22.5°	672.9	673.1	679.0	670.2	675.1	664.2	664.8	654.1	654.9
25°	654.9	653.9	656.9	650.9	654.9	645.0	645.8	634.7	635.7
27.5°	632.7	633.8	638.5	629.4	635.3	623.2	623.6	613.4	612.0
30°	616.5	618.5	625.6	615.6	621.5	608.7	607.4	597.2	594.3
32.5°	599.5	601.5	608.6	601.0	606.2	594.1	591.2	579.5	577.3
35°	573.0	575.0	582.1	578.1	580.1	568.3	564.9	552.8	549.8
37.5°	546.2	548.1	554.0	551.2	553.0	540.6	535.8	525.1	522.9
40°	527.6	529.5	534.6	532.6	533.6	522.7	516.4	507.3	504.3
42.5°	509.8	511.0	515.2	511.6	514.2	504.1	497.0	487.8	483.3
45°	480.1	480.1	486.1	482.1	485.1	475.2	466.9	456.7	451.8
47.5°	449.3	447.6	454.6	453.2	454.6	443.9	435.6	425.0	421.4
50°	427.5	426.5	433.6	434.6	433.6	423.7	415.4	403.2	401.2
52.5°	404.1	405.4	410.9	411.9	411.7	401.9	392.7	381.4	379.4
55°	370.9	372.9	378.0	379.0	378.0	369.1	359.8	347.6	345.6
57.5°	335.9	340.7	345.0	346.1	346.7	337.2	325.6	316.4	312.3
60°	313.3	317.3	322.4	323.4	322.4	314.5	302.2	293.0	288.0
62.5°	290.7	293.0	298.1	300.7	298.1	290.2	277.9	269.6	267.8
65°	255.7	257.7	262.8	264.8	265.8	254.9	242.6	235.4	231.4
67.5°	217.9	220.3	223.1	226.0	227.2	215.7	205.6	198.0	193.6
70°	196.1	196.1	198.1	200.2	202.1	192.2	182.9	173.8	171.8
72.5°	172.6	172.6	175.4	176.7	177.1	168.0	159.5	151.2	150.8
75°	137.4	137.4	139.5	140.4	138.5	132.5	125.3	118.2	117.2
77.5°	104.5	103.9	105.7	106.5	105.5	98.8	91.8	86.9	85.5
80°	81.9	82.9	83.9	83.9	82.9	76.9	70.7	66.6	63.7
82.5°	60.8	61.8	63.7	63.6	61.0	57.5	52.1	47.3	46.7
85°	32.3	32.3	35.4	34.3	31.3	29.4	26.3	22.2	22.2
87.5°	8.1	8.9	10.5	12.8	8.9	9.7	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	1.6	2.7	10.1	11.3	10.3	9.7
95°	2.7	2.7	4.1	12.8	12.8	20.8	28.4	27.7	27.7
97.5°	6.1	6.7	9.5	39.1	29.2	28.4	40.5	44.6	45.0
100°	8.8	9.4	14.9	63.7	43.2	36.6	43.2	52.7	54.7
102.5°	12.0	13.2	23.5	100.5	61.1	43.9	50.8	57.6	59.6
105°	18.2	20.2	49.3	168.5	93.2	58.2	64.2	67.6	68.2
107.5°	27.4	34.8	134.9	237.0	132.2	77.0	80.5	82.8	83.6
110°	37.1	53.0	234.4	278.3	161.4	91.4	89.1	95.2	93.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	62.5	109.0	344.0	312.2	190.6	108.4	97.3	107.1	107.9
115°	174.9	300.4	459.9	360.5	235.0	138.0	110.1	119.6	123.6
117.5°	439.0	522.3	521.0	405.2	277.7	172.7	125.5	130.0	134.5
120°	590.3	602.8	551.8	435.4	305.3	197.6	138.5	136.5	140.5
122.5°	646.5	636.3	575.0	461.9	333.4	223.6	155.2	143.5	147.0
125°	695.0	675.1	605.1	499.6	374.8	261.9	185.7	158.7	158.0
127.5°	721.8	701.1	634.6	532.4	412.9	301.7	220.4	180.2	174.1
130°	734.8	715.7	655.1	552.6	438.3	328.7	245.8	199.0	189.8
132.5°	750.5	729.7	669.7	573.2	462.6	354.1	271.2	221.7	210.9
135°	765.9	746.7	693.6	600.1	497.1	391.4	308.0	259.0	245.2
137.5°	779.6	762.1	715.5	621.2	528.1	428.2	346.9	299.2	282.3
140°	788.8	769.7	724.7	637.5	547.0	451.3	372.8	325.2	312.0
142.5°	792.1	780.3	734.4	651.2	568.1	473.4	398.7	349.6	337.4
145°	801.7	793.7	746.3	667.6	593.0	506.5	438.3	387.4	374.2
147.5°	807.9	796.0	757.2	685.3	617.3	536.1	474.2	425.3	413.1
150°	808.4	799.2	765.9	696.2	633.5	557.6	496.4	450.2	439.0
152.5°	812.7	801.4	770.2	705.5	645.4	575.8	518.5	475.6	463.3
155°	809.8	801.8	776.7	717.4	663.9	599.2	549.8	511.7	501.1
157.5°	809.8	800.0	777.5	726.6	681.7	624.9	578.9	543.8	535.8
160°	804.4	800.4	778.0	733.2	690.9	639.4	598.4	566.4	555.8
162.5°	802.2	795.6	779.1	737.6	699.0	651.2	615.1	584.8	576.9
165°	792.9	786.9	772.6	739.6	711.8	672.2	639.6	612.5	608.5
167.5°	782.2	777.6	768.2	742.8	720.3	688.0	660.5	638.6	633.2
170°	774.6	767.4	763.8	744.5	724.7	697.6	674.0	654.3	648.4
172.5°	761.7	760.8	757.9	740.3	728.5	706.1	686.4	668.4	664.6
175°	746.3	746.3	748.3	737.4	733.5	715.0	701.0	690.1	684.1
177.5°	728.5	729.0	733.3	732.8	733.3	722.8	718.7	708.4	707.4
180°	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7	724.7

(END OF REPORT)