

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: P522570

Luminaire Tested: **SQW-F-0U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522570
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-0U-050D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

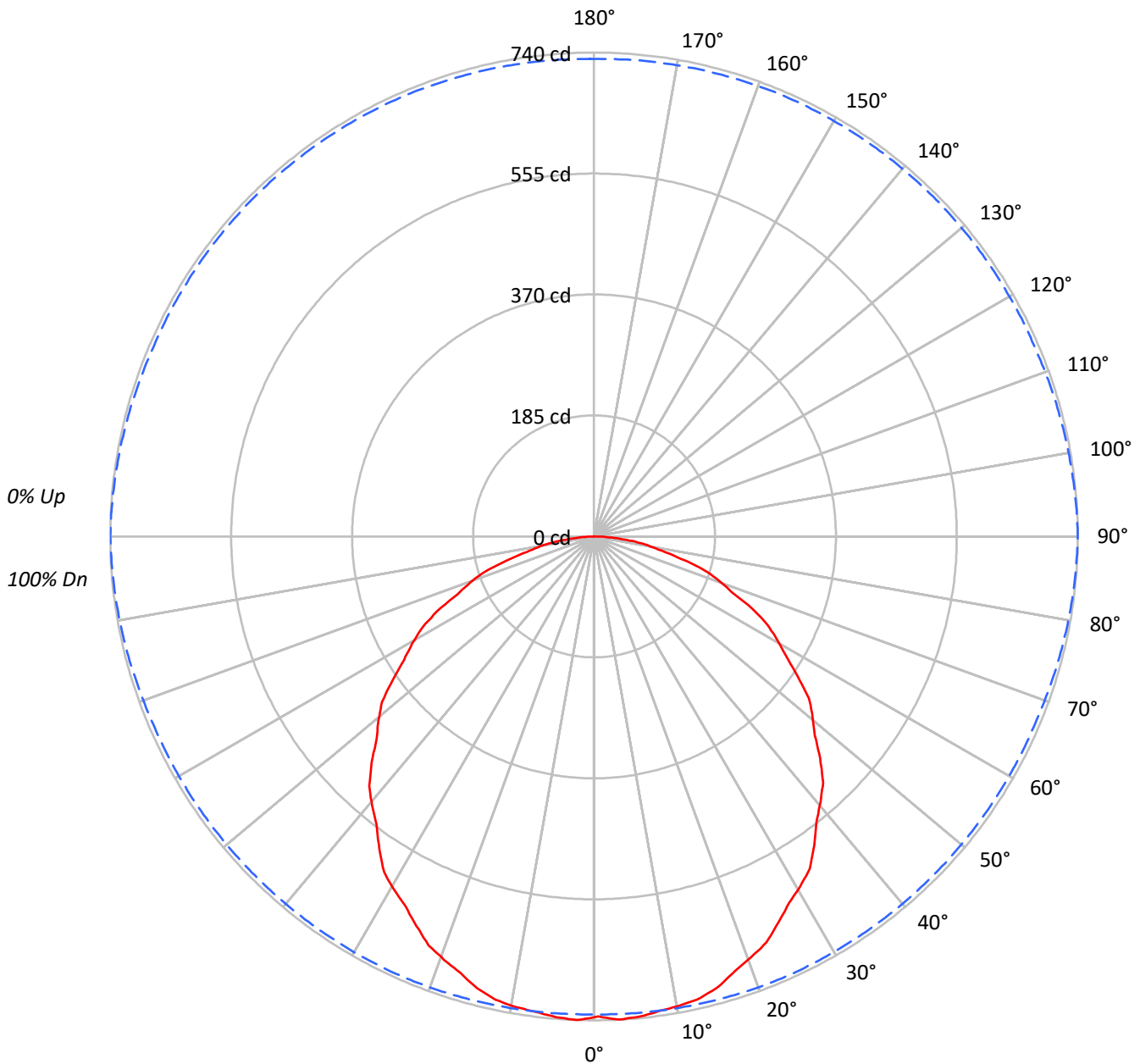
Lumens per Lamp: N/A
Luminaire Lumens: 2045.2 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 21
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 90° Lateral - - - Horizontal Cone Through 2.5° 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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84				
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59				
4	83	71	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43				
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38				
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34				
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30				
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24				

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	3.4
10°-20°	198.6	9.7
20°-30°	298.7	14.6
30°-40°	356.5	17.4
40°-50°	366.1	17.9
50°-60°	329.0	16.1
60°-70°	249.5	12.2
70°-80°	140.7	6.9
80°-90°	36.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	566.9	27.7
0°-40°	923.4	45.2
0°-60°	1618.5	79.1
0°-90°	2045.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.2	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	39
90°	0	0	0	0	0	



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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

(END OF REPORT)