

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: P522495

Luminaire Tested: **SQW-F-025U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522495
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-025U-050D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

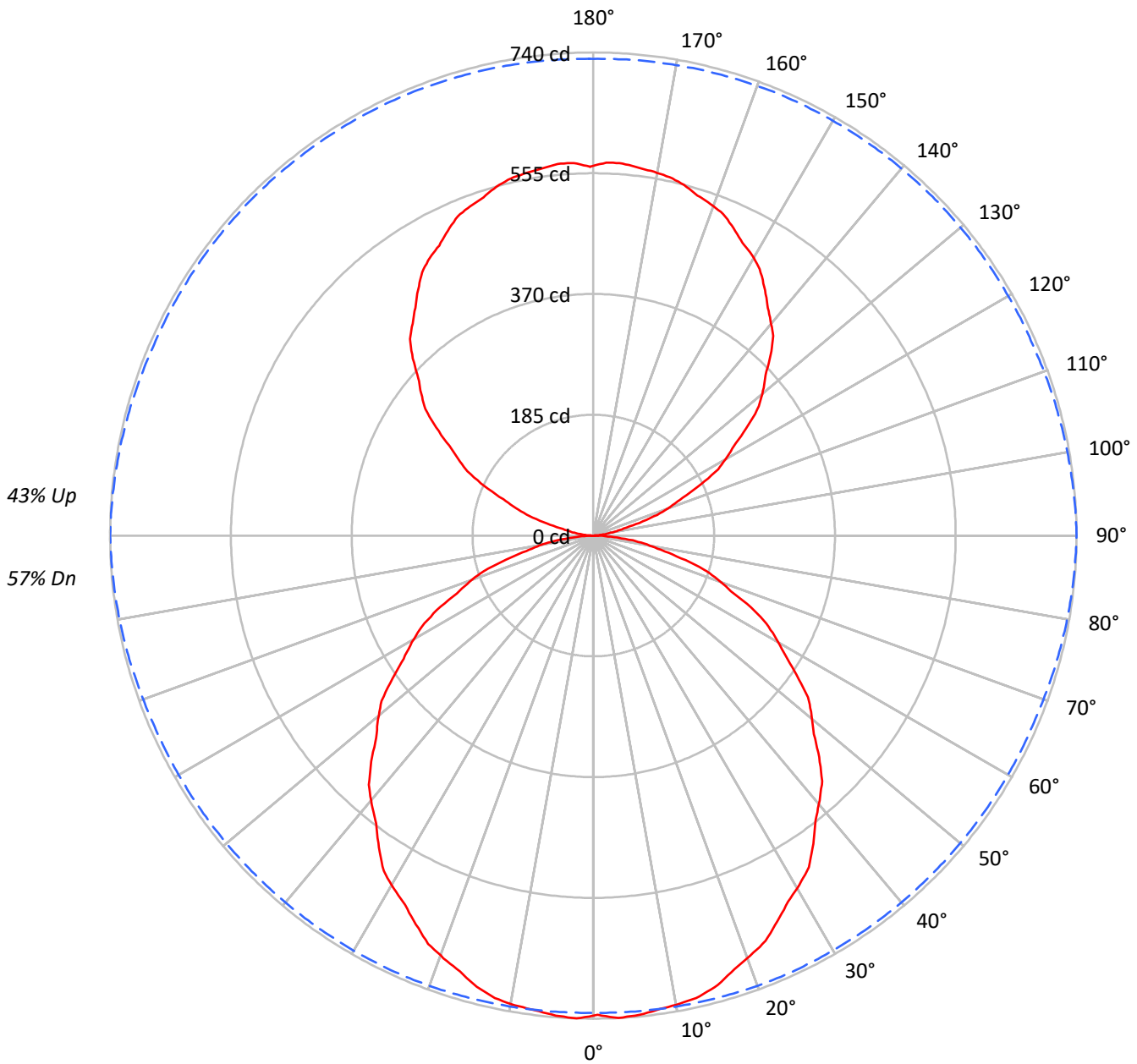
Lumens per Lamp: N/A
Luminaire Lumens: 3616.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.1
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	57				
1	99	95	91	87	92	88	85	82	76	74	71	65	63	61	55	53	52	47				
2	90	83	76	71	84	77	71	67	67	62	59	57	54	51	48	46	44	39				
3	82	72	65	59	76	68	61	56	59	53	49	50	46	43	42	40	37	33				
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	35	32	28				
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	25				
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	31	27	24	21				
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	22	19				
8	54	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				
9	51	38	31	25	47	36	29	24	32	26	22	28	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

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	1.9
10°-20°	198.6	5.5
20°-30°	298.7	8.3
30°-40°	356.5	9.9
40°-50°	366.1	10.1
50°-60°	329.0	9.1
60°-70°	249.5	6.9
70°-80°	140.7	3.9
80°-90°	36.5	1.0
90°-100°	14.3	0.4
100°-110°	63.3	1.8
110°-120°	181.9	5.0
120°-130°	277.1	7.7
130°-140°	300.8	8.3
140°-150°	287.6	8.0
150°-160°	237.0	6.6
160°-170°	155.1	4.3
170°-180°	53.7	1.5
0°-30°	566.9	15.7
0°-40°	923.4	25.5
0°-60°	1618.5	44.8
0°-90°	2045.2	56.6
90°-120°	259.5	7.2
90°-150°	1125.1	31.1
90°-180°	1571.0	43.4
0°-180°	3616.0	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°	2	3	10	22	22	3
105°	14	38	73	50	53	17
115°	136	359	183	86	96	188
125°	542	472	292	145	123	476
135°	597	541	388	240	191	461
145°	625	582	462	342	292	392
155°	632	606	518	429	391	292
165°	618	602	555	499	474	175
175°	582	584	572	547	534	56
180°	565	565	565	565	565	



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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°	0.4	0.4	0.8	1.3	2.1	7.9	8.8	8.0	7.6
95°	2.1	2.1	3.2	10.0	10.0	16.2	22.1	21.6	21.6
97.5°	4.7	5.3	7.4	30.5	22.8	22.1	31.6	34.8	35.1
100°	6.8	7.4	11.6	49.7	33.7	28.6	33.7	41.1	42.7
102.5°	9.4	10.3	18.3	78.4	47.6	34.2	39.6	44.9	46.5
105°	14.2	15.8	38.4	131.4	72.7	45.4	50.0	52.7	53.2
107.5°	21.4	27.2	105.2	184.8	103.1	60.1	62.8	64.6	65.2
110°	29.0	41.3	182.8	217.0	125.9	71.3	69.5	74.2	73.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	48.8	85.0	268.3	243.5	148.6	84.6	75.8	83.5	84.2
115°	136.4	234.3	358.7	281.1	183.3	107.6	85.8	93.3	96.4
117.5°	342.3	407.3	406.3	316.0	216.6	134.7	97.9	101.4	104.9
120°	460.3	470.1	430.3	339.5	238.1	154.1	108.0	106.5	109.5
122.5°	504.1	496.2	448.4	360.2	260.0	174.4	121.0	111.9	114.6
125°	541.9	526.5	471.9	389.6	292.3	204.2	144.8	123.8	123.2
127.5°	562.9	546.7	494.9	415.2	322.0	235.3	171.9	140.5	135.8
130°	573.0	558.1	510.9	430.9	341.8	256.3	191.7	155.2	148.0
132.5°	585.2	569.1	522.2	447.0	360.8	276.1	211.5	172.9	164.4
135°	597.2	582.3	540.9	468.0	387.6	305.2	240.2	202.0	191.2
137.5°	608.0	594.3	558.0	484.5	411.9	333.9	270.5	233.3	220.1
140°	615.2	600.2	565.1	497.2	426.6	351.9	290.7	253.6	243.3
142.5°	617.7	608.5	572.7	507.8	443.0	369.2	310.9	272.6	263.1
145°	625.2	619.0	582.0	520.6	462.4	395.0	341.8	302.1	291.8
147.5°	630.0	620.7	590.5	534.4	481.4	418.0	369.8	331.7	322.1
150°	630.4	623.2	597.2	542.9	494.0	434.8	387.1	351.1	342.3
152.5°	633.8	624.9	600.6	550.2	503.3	449.0	404.4	370.9	361.3
155°	631.5	625.3	605.7	559.4	517.7	467.3	428.7	399.0	390.8
157.5°	631.5	623.9	606.3	566.6	531.6	487.3	451.5	424.0	417.9
160°	627.3	624.2	606.7	571.7	538.8	498.6	466.6	441.7	433.5
162.5°	625.6	620.4	607.6	575.2	545.1	507.8	479.7	456.1	449.9
165°	618.3	613.7	602.5	576.7	555.1	524.2	498.8	477.6	474.5
167.5°	610.0	606.4	599.0	579.3	561.7	536.5	515.1	498.0	493.8
170°	604.1	598.4	595.7	580.6	565.1	544.0	525.6	510.2	505.6
172.5°	594.0	593.3	591.0	577.3	568.1	550.7	535.3	521.2	518.2
175°	582.0	582.0	583.6	575.1	572.0	557.5	546.7	538.2	533.5
177.5°	568.1	568.5	571.9	571.4	571.9	563.6	560.5	552.5	551.6
180°	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1

(END OF REPORT)