

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: P522300

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522300
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

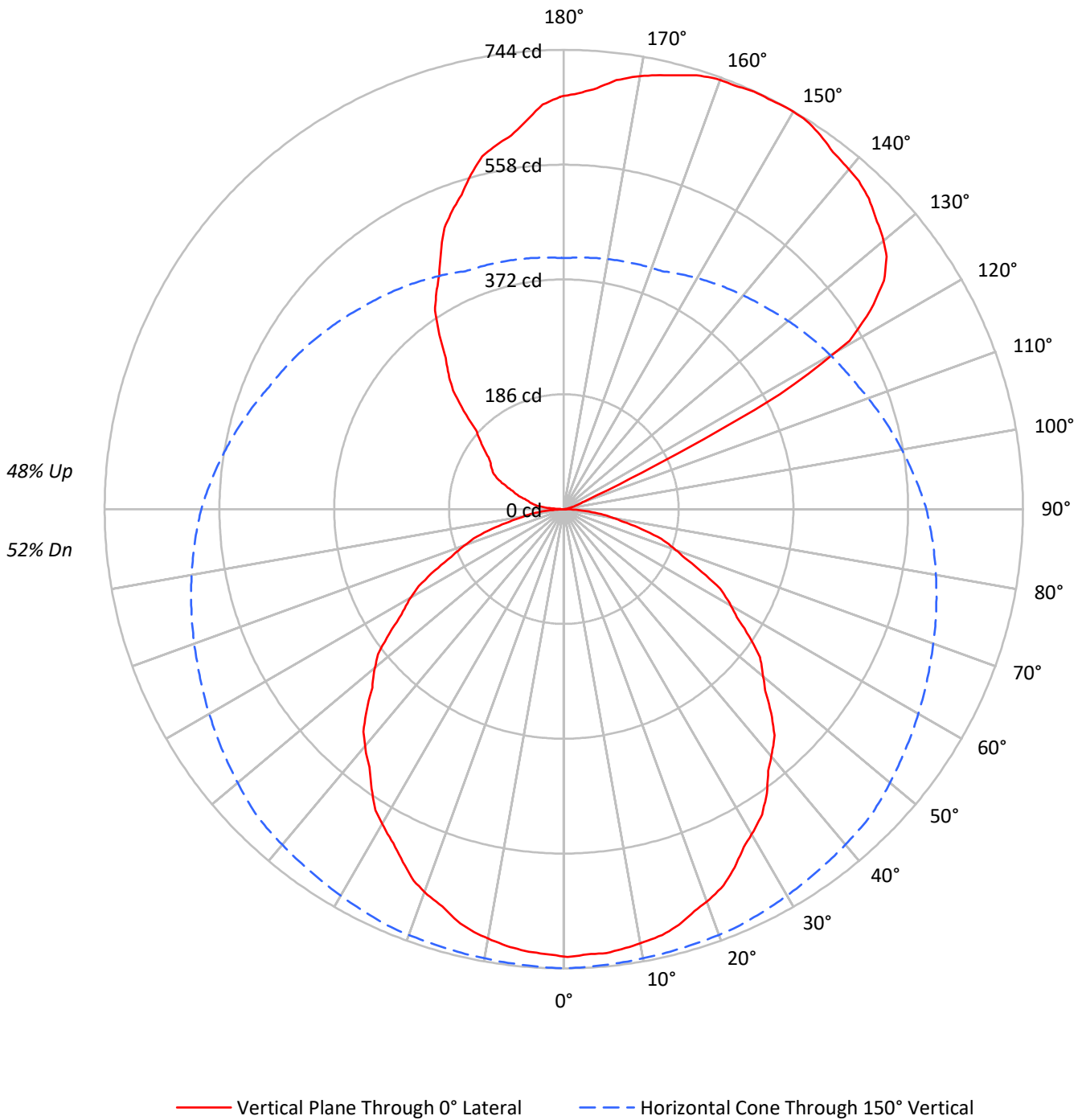
Lumens per Lamp: N/A
Luminaire Lumens: 3887.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.5
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





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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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49	44
2	89	82	75	70	82	76	70	66	65	61	57	54	51	49	45	43	41	36
3	81	72	64	58	75	67	60	55	57	52	48	48	44	41	40	37	35	31
4	74	63	55	49	68	59	52	46	50	45	41	43	38	35	35	32	30	26
5	68	56	48	42	63	52	45	40	45	39	35	38	34	30	32	28	26	23
6	63	51	42	36	58	47	40	34	41	35	30	34	30	26	29	25	23	20
7	58	46	37	32	53	43	35	30	37	31	27	31	27	23	26	23	20	17
8	54	41	33	28	50	39	32	27	33	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	11711	11711	11711
5°	11705	11823	11655
10°	11688	11808	11603
15°	11674	11744	11519
20°	11591	11680	11378
25°	11448	11558	11190
30°	11285	11440	11035
35°	11156	11298	10829
40°	10947	11143	10642
45°	10750	10985	10396
50°	10474	10786	10135
55°	10252	10545	9757
60°	9956	10324	9390
65°	9410	9883	8856
70°	8889	9427	8257
75°	8197	8652	7555
80°	7122	7596	6351
85°	5372	5947	4798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	1.8
10°-20°	196.1	5.0
20°-30°	295.0	7.6
30°-40°	352.2	9.1
40°-50°	362.3	9.3
50°-60°	325.9	8.4
60°-70°	246.5	6.3
70°-80°	140.2	3.6
80°-90°	37.0	1.0
90°-100°	17.5	0.5
100°-110°	76.0	2.0
110°-120°	216.7	5.6
120°-130°	329.5	8.5
130°-140°	356.4	9.2
140°-150°	340.6	8.8
150°-160°	280.1	7.2
160°-170°	183.0	4.7
170°-180°	63.3	1.6
0°-30°	559.7	14.4
0°-40°	911.9	23.5
0°-60°	1600.1	41.2
0°-90°	2023.8	52.1
90°-120°	310.3	8.0
90°-150°	1336.8	34.4
90°-180°	1863.0	47.9
0°-180°	3887.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	725	725	725	725	725	
5°	722	722	730	722	719	69
15°	698	700	703	694	689	197
25°	643	649	649	640	628	296
35°	566	572	573	561	549	353
45°	471	477	481	466	455	363
55°	364	372	375	360	347	325
65°	246	254	259	243	232	245
75°	131	136	139	128	121	139
85°	29	33	32	29	26	34
90°	0	0	0	0	0	1
95°	3	4	12	28	27	4
105°	18	45	88	60	65	20
115°	160	425	219	104	118	220
125°	637	561	351	172	148	560
135°	705	638	461	286	227	543
145°	735	688	550	407	347	460
155°	743	710	614	510	462	343
165°	726	710	658	590	562	206
175°	684	685	673	649	632	66
180°	668	668	668	668	668	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3	725.3
2.5°	722.0	724.5	724.5	723.8	730.3	723.8	725.3	723.6	721.2
5°	722.2	722.2	722.2	721.4	729.5	720.4	722.2	719.1	719.1
7.5°	717.9	718.1	718.9	716.2	725.1	715.0	716.9	713.6	714.4
10°	712.9	713.9	714.0	712.1	720.2	710.0	711.9	707.7	707.7
12.5°	708.0	708.2	709.0	706.3	714.4	703.4	705.3	701.1	700.3
15°	698.4	698.4	699.5	695.5	702.6	692.5	694.3	689.1	689.1
17.5°	684.6	684.4	686.8	681.6	688.9	677.6	681.3	674.8	673.0
20°	674.6	673.6	677.7	671.7	679.8	667.7	670.5	663.2	662.2
22.5°	662.2	661.2	667.0	660.9	668.2	656.1	658.9	649.2	649.0
25°	642.6	641.5	648.8	642.7	648.8	637.6	639.5	629.1	628.1
27.5°	620.2	620.2	628.7	621.6	628.5	617.4	618.1	607.6	607.6
30°	605.3	605.3	614.6	607.5	613.6	602.5	603.2	591.9	591.9
32.5°	589.6	589.6	597.2	591.8	597.9	586.7	586.7	575.3	575.3
35°	566.0	564.0	572.2	567.2	573.2	562.1	560.8	549.4	549.4
37.5°	537.6	536.6	545.7	542.1	547.0	536.0	533.1	522.1	523.2
40°	519.4	518.4	526.7	524.7	528.7	518.6	513.2	503.9	504.9
42.5°	500.4	498.6	506.8	505.7	509.7	499.6	495.0	484.9	485.1
45°	470.8	470.8	477.0	477.1	481.1	470.0	465.6	455.3	455.3
47.5°	439.3	439.5	446.0	446.3	450.1	440.4	435.6	424.4	424.2
50°	417.0	418.0	425.3	426.4	429.4	421.3	414.9	404.6	403.5
52.5°	398.0	396.5	403.7	405.7	407.9	399.8	393.4	383.0	382.0
55°	364.2	365.2	371.5	374.6	374.6	367.5	360.1	349.7	346.6
57.5°	330.7	332.1	337.1	341.1	342.1	334.2	326.6	317.2	313.1
60°	308.3	307.3	315.6	318.7	319.7	312.6	304.2	294.8	290.8
62.5°	284.3	284.9	290.8	295.5	296.6	288.7	281.0	269.2	265.9
65°	246.3	249.3	253.5	256.7	258.7	252.6	243.2	233.8	231.8
67.5°	211.5	213.5	217.7	222.5	223.7	216.8	208.4	200.3	198.0
70°	188.3	190.3	194.5	197.7	199.7	193.6	185.2	177.9	174.9
72.5°	165.1	167.2	170.5	173.7	175.7	169.6	162.0	155.6	153.3
75°	131.4	133.4	135.5	137.6	138.7	134.6	128.3	122.1	121.1
77.5°	98.1	100.1	102.4	105.1	104.1	101.3	95.2	91.0	89.8
80°	76.6	78.6	81.7	82.8	81.7	79.7	74.5	70.3	68.3
82.5°	56.7	58.7	61.9	62.0	60.2	59.8	55.5	52.1	50.9
85°	29.0	31.0	33.1	34.1	32.1	32.1	29.0	25.9	25.9
87.5°	5.8	7.4	9.9	12.4	9.9	10.7	8.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.8	2.7	9.8	10.9	9.5	9.5
95°	2.8	2.8	4.0	12.5	11.9	20.2	28.3	26.6	26.6
97.5°	5.8	6.3	9.1	36.9	27.8	27.0	38.3	42.6	43.4
100°	8.5	9.1	13.6	60.2	41.4	35.3	41.9	49.9	51.6
102.5°	11.7	12.7	21.8	94.7	58.2	41.4	47.8	54.9	57.0
105°	17.6	19.2	44.8	158.8	87.9	54.1	60.1	63.0	64.6
107.5°	26.1	32.8	120.6	223.1	124.7	71.4	77.8	77.3	78.8
110°	35.1	49.0	208.6	258.3	151.9	84.8	85.0	89.5	87.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.3	97.4	311.1	292.2	179.1	101.0	91.8	101.8	102.4
115°	159.8	274.6	425.1	339.6	219.4	129.6	104.3	114.0	117.9
117.5°	396.3	477.7	483.5	381.8	259.5	161.5	118.6	122.9	128.0
120°	537.4	554.0	510.7	407.6	286.3	184.3	130.4	128.8	134.3
122.5°	592.7	586.7	532.9	431.7	312.6	208.4	144.9	136.0	139.8
125°	637.1	621.6	560.6	465.0	350.9	244.5	172.3	147.9	147.9
127.5°	663.6	645.6	586.0	494.6	385.4	280.9	205.3	167.3	162.1
130°	679.1	659.7	601.4	515.1	408.1	304.5	228.4	184.0	175.7
132.5°	690.9	673.2	615.9	531.1	430.3	327.6	251.6	204.8	191.1
135°	705.1	690.2	638.3	555.6	461.4	362.2	286.3	240.6	226.7
137.5°	714.3	702.7	658.3	575.8	490.2	396.5	321.3	275.4	262.9
140°	719.3	709.9	668.3	587.7	507.9	418.7	345.8	299.0	287.4
142.5°	724.3	716.7	675.6	600.9	525.1	440.8	369.8	323.0	310.5
145°	734.6	725.7	687.6	616.9	549.8	471.7	407.0	358.0	346.9
147.5°	741.9	731.2	697.4	634.0	573.2	499.7	441.1	393.8	382.8
150°	743.7	732.6	702.9	643.2	587.2	516.9	462.0	416.9	406.4
152.5°	742.3	733.9	707.0	651.0	599.0	533.5	481.0	439.2	429.5
155°	743.1	735.4	710.2	661.5	613.9	556.8	509.6	472.5	462.5
157.5°	739.7	734.6	712.5	669.6	627.6	577.6	535.8	504.6	494.5
160°	739.7	732.0	712.5	674.3	637.1	591.1	552.1	524.1	515.8
162.5°	734.7	727.9	712.1	677.6	646.2	603.7	567.5	541.4	535.3
165°	725.5	720.0	709.7	681.9	657.5	620.9	589.5	566.2	562.3
167.5°	718.4	710.8	705.1	681.8	665.2	633.3	608.1	588.8	586.6
170°	710.2	705.3	700.6	680.5	668.9	642.3	621.2	601.9	599.7
172.5°	699.8	697.0	694.7	679.7	671.1	649.8	632.6	615.0	611.0
175°	683.6	685.8	685.3	677.8	673.4	659.5	649.0	636.4	631.5
177.5°	673.6	672.7	675.0	673.6	673.2	664.7	661.8	653.3	655.9
180°	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7

(END OF REPORT)