

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: P522289

Luminaire Tested: **SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522289
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-025D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

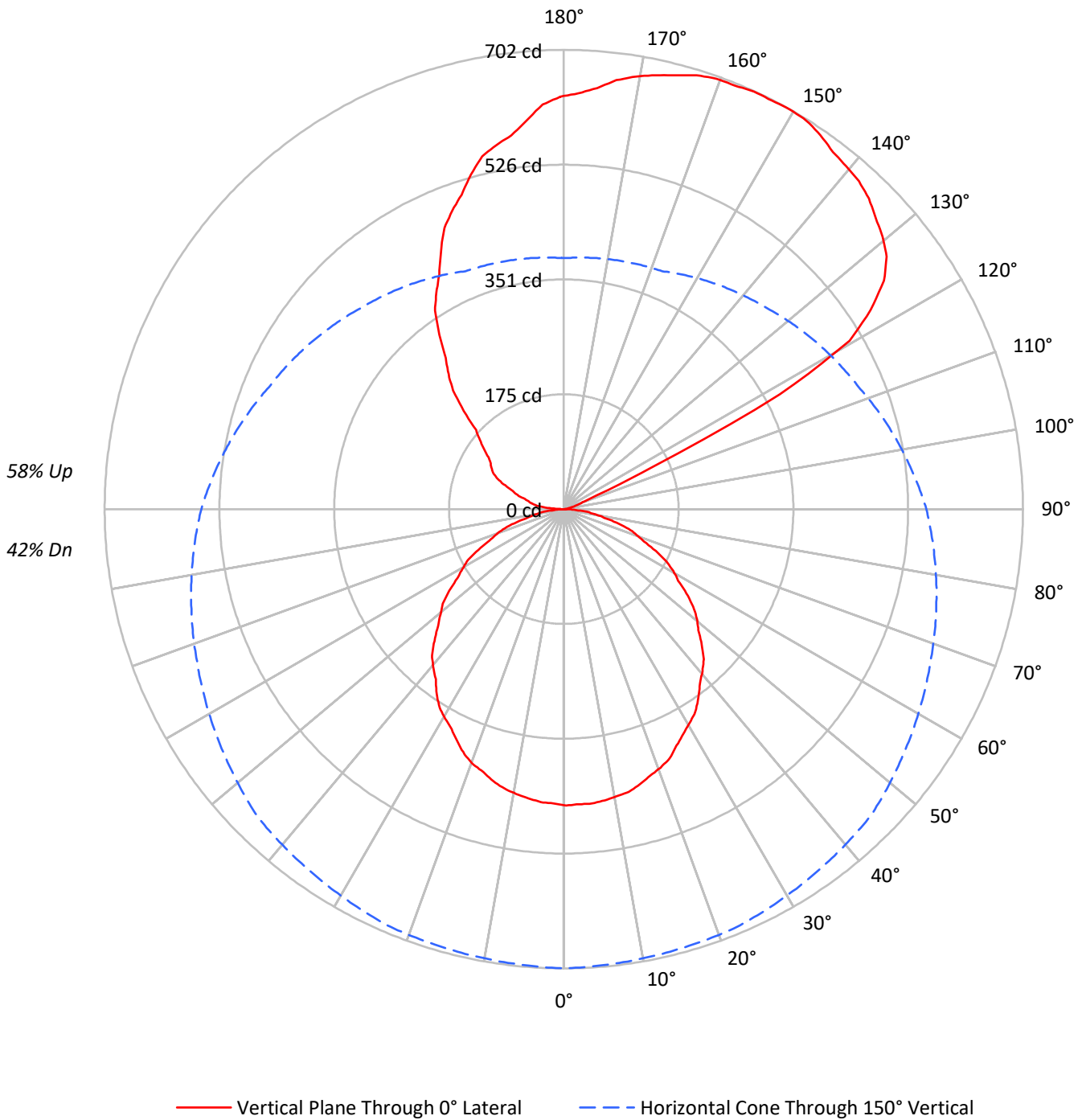
Lumens per Lamp: N/A
Luminaire Lumens: 3022.3 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	84	87	84	80	77	69	67	64	55	54	52	43	42	41	35
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	38	36	34	29
3	79	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	30	27	25	21
5	67	55	47	41	60	50	43	38	42	37	32	34	30	27	27	24	22	18
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	44	36	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	32	27	48	37	30	25	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	16	13	11
10	45	33	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7316	7316	7316
5°	7329	7392	7280
10°	7317	7381	7237
15°	7296	7346	7183
20°	7249	7299	7115
25°	7133	7220	6976
30°	7064	7137	6865
35°	6987	7064	6757
40°	6875	6957	6608
45°	6756	6846	6444
50°	6624	6722	6229
55°	6404	6570	6046
60°	6213	6400	5803
65°	5895	6231	5521
70°	5580	5948	5164
75°	5178	5483	4629
80°	4630	4816	4082
85°	3446	3612	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.4
10°-20°	122.6	4.1
20°-30°	184.3	6.1
30°-40°	220.4	7.3
40°-50°	226.5	7.5
50°-60°	202.4	6.7
60°-70°	153.7	5.1
70°-80°	87.8	2.9
80°-90°	23.2	0.8
90°-100°	16.6	0.5
100°-110°	71.7	2.4
110°-120°	204.5	6.8
120°-130°	311.0	10.3
130°-140°	336.4	11.1
140°-150°	321.4	10.6
150°-160°	264.4	8.7
160°-170°	172.7	5.7
170°-180°	59.7	2.0
0°-30°	349.7	11.6
0°-40°	570.1	18.9
0°-60°	999.0	33.1
0°-90°	1263.8	41.8
90°-120°	292.8	9.7
90°-150°	1261.7	41.7
90°-180°	1758.0	58.2
0°-180°	3022.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	453	453	453	453	453	
5°	452	452	456	451	449	43
15°	436	438	440	434	430	123
25°	400	405	405	398	392	185
35°	354	359	358	351	343	221
45°	296	300	300	291	282	228
55°	228	231	233	222	215	203
65°	154	159	163	151	144	153
75°	83	86	88	79	74	88
85°	19	22	20	18	15	22
90°	0	0	0	0	0	1
95°	3	4	11	27	25	3
105°	17	42	83	57	61	19
115°	151	401	207	98	111	208
125°	601	529	331	163	140	528
135°	666	602	436	270	214	513
145°	693	649	519	384	327	434
155°	701	670	579	481	436	324
165°	685	670	621	556	531	195
175°	645	647	636	612	596	63
180°	630	630	630	630	630	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1	453.1
2.5°	451.6	452.3	453.1	453.2	457.0	452.5	452.3	451.5	450.0
5°	452.2	452.2	452.2	451.3	456.1	450.3	451.2	449.2	449.2
7.5°	449.4	448.7	448.8	447.8	452.5	446.6	446.7	445.5	445.3
10°	446.3	446.3	447.3	445.4	450.2	443.5	444.3	442.4	441.4
12.5°	443.2	442.4	443.4	441.5	446.3	439.6	439.7	436.9	436.7
15°	436.5	436.5	437.5	435.6	439.5	433.7	433.6	430.6	429.7
17.5°	428.1	427.9	430.1	427.2	431.1	424.4	424.4	421.8	420.3
20°	421.9	420.9	423.8	421.0	424.8	418.1	418.9	414.1	414.1
22.5°	414.1	413.1	416.8	413.2	417.0	410.3	411.1	405.5	404.7
25°	400.4	401.3	405.3	402.4	405.3	398.6	398.4	392.6	391.6
27.5°	389.1	388.3	393.4	389.3	392.2	385.5	385.5	378.5	377.5
30°	378.9	378.9	384.8	380.0	382.8	376.1	377.0	369.1	368.2
32.5°	369.5	369.5	374.6	371.3	373.4	366.8	366.0	359.0	358.0
35°	354.5	354.5	359.4	356.5	358.4	351.7	350.6	342.8	342.8
37.5°	337.9	337.1	341.8	339.9	341.8	335.3	333.0	326.2	325.2
40°	326.2	326.2	330.1	328.2	330.1	324.4	321.3	314.4	313.5
42.5°	313.7	313.7	318.4	316.5	318.4	311.9	308.8	301.9	301.0
45°	295.9	295.9	299.8	298.9	299.8	294.1	291.0	283.2	282.2
47.5°	277.0	276.2	279.9	280.1	281.6	275.3	271.3	263.8	262.9
50°	263.7	263.7	266.6	267.6	267.6	262.8	258.8	249.0	248.0
52.5°	248.0	248.8	251.8	252.8	253.5	247.2	243.2	235.7	234.8
55°	227.5	226.6	231.4	232.4	233.4	227.7	221.7	215.8	214.8
57.5°	206.4	206.3	210.4	211.5	212.3	207.5	201.6	194.9	193.8
60°	192.4	191.4	196.3	198.2	198.2	193.5	187.5	181.6	179.7
62.5°	176.0	178.1	181.4	183.4	185.0	179.4	172.7	167.5	165.6
65°	154.3	155.3	159.2	161.2	163.1	157.4	151.4	146.4	144.5
67.5°	132.2	133.9	136.9	138.9	140.8	135.3	129.3	125.2	123.4
70°	118.2	119.1	122.1	124.1	126.0	121.2	115.2	110.3	109.4
72.5°	104.1	105.1	108.0	109.2	110.4	105.6	100.4	97.0	95.3
75°	83.0	84.0	85.9	86.9	87.9	83.1	79.1	76.1	74.2
77.5°	63.1	63.1	65.0	65.8	65.8	63.0	59.2	56.4	54.9
80°	49.8	49.8	51.8	51.8	51.8	48.9	45.9	43.9	43.9
82.5°	36.5	37.3	39.3	39.2	38.5	36.4	34.2	32.2	32.2
85°	18.6	19.5	21.5	21.4	19.5	19.5	17.6	16.6	14.6
87.5°	4.7	5.5	7.0	7.8	6.3	6.3	4.7	3.1	3.1
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	1.7	2.6	9.3	10.3	9.0	9.0
95°	2.7	2.7	3.7	11.8	11.2	19.1	26.7	25.1	25.1
97.5°	5.5	6.0	8.6	34.8	26.2	25.5	36.2	40.2	41.0
100°	8.0	8.5	12.8	56.8	39.1	33.3	39.6	47.1	48.7
102.5°	11.0	12.0	20.5	89.4	54.9	39.1	45.2	51.8	53.8
105°	16.6	18.2	42.3	149.9	82.9	51.0	56.7	59.4	61.0
107.5°	24.6	31.0	113.8	210.6	117.7	67.4	73.4	73.0	74.4
110°	33.2	46.2	196.9	243.8	143.4	80.1	80.2	84.5	82.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	55.0	91.9	293.6	275.8	169.1	95.3	86.7	96.1	96.6
115°	150.9	259.1	401.2	320.5	207.0	122.3	98.4	107.6	111.3
117.5°	374.1	450.8	456.3	360.3	244.9	152.4	111.9	116.0	120.8
120°	507.2	522.8	482.0	384.7	270.2	173.9	123.0	121.6	126.8
122.5°	559.4	553.7	503.0	407.4	295.0	196.6	136.7	128.4	131.9
125°	601.3	586.7	529.1	438.9	331.1	230.7	162.6	139.6	139.6
127.5°	626.3	609.3	553.1	466.8	363.8	265.1	193.8	157.9	153.0
130°	640.9	622.6	567.6	486.1	385.2	287.4	215.6	173.7	165.8
132.5°	652.0	635.4	581.3	501.3	406.2	309.2	237.4	193.3	180.4
135°	665.5	651.4	602.4	524.4	435.5	341.8	270.2	227.1	214.0
137.5°	674.2	663.2	621.3	543.4	462.6	374.2	303.2	259.9	248.1
140°	678.9	670.0	630.7	554.7	479.3	395.1	326.3	282.2	271.2
142.5°	683.6	676.4	637.6	567.2	495.6	416.0	349.0	304.9	293.1
145°	693.3	685.0	648.9	582.2	518.9	445.2	384.1	337.9	327.4
147.5°	700.2	690.1	658.2	598.4	541.0	471.6	416.3	371.7	361.3
150°	701.9	691.4	663.4	607.1	554.2	487.8	436.0	393.5	383.6
152.5°	700.6	692.7	667.2	614.4	565.4	503.5	454.0	414.5	405.4
155°	701.4	694.0	670.3	624.4	579.4	525.5	480.9	446.0	436.5
157.5°	698.1	693.3	672.5	632.0	592.3	545.1	505.7	476.2	466.7
160°	698.1	690.8	672.5	636.4	601.3	557.9	521.1	494.7	486.8
162.5°	693.4	686.9	672.0	639.5	609.9	569.8	535.6	511.0	505.2
165°	684.8	679.5	669.8	643.6	620.6	586.0	556.4	534.4	530.7
167.5°	678.0	670.8	665.5	643.4	627.8	597.7	573.9	555.7	553.6
170°	670.3	665.6	661.2	642.3	631.3	606.2	586.3	568.1	566.0
172.5°	660.5	657.9	655.7	641.5	633.4	613.3	597.0	580.5	576.7
175°	645.2	647.3	646.8	639.7	635.6	622.5	612.5	600.7	596.0
177.5°	635.8	634.9	637.0	635.8	635.3	627.4	624.6	616.6	619.1
180°	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2

(END OF REPORT)