

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: P522293

Luminaire Tested: **SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522293
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

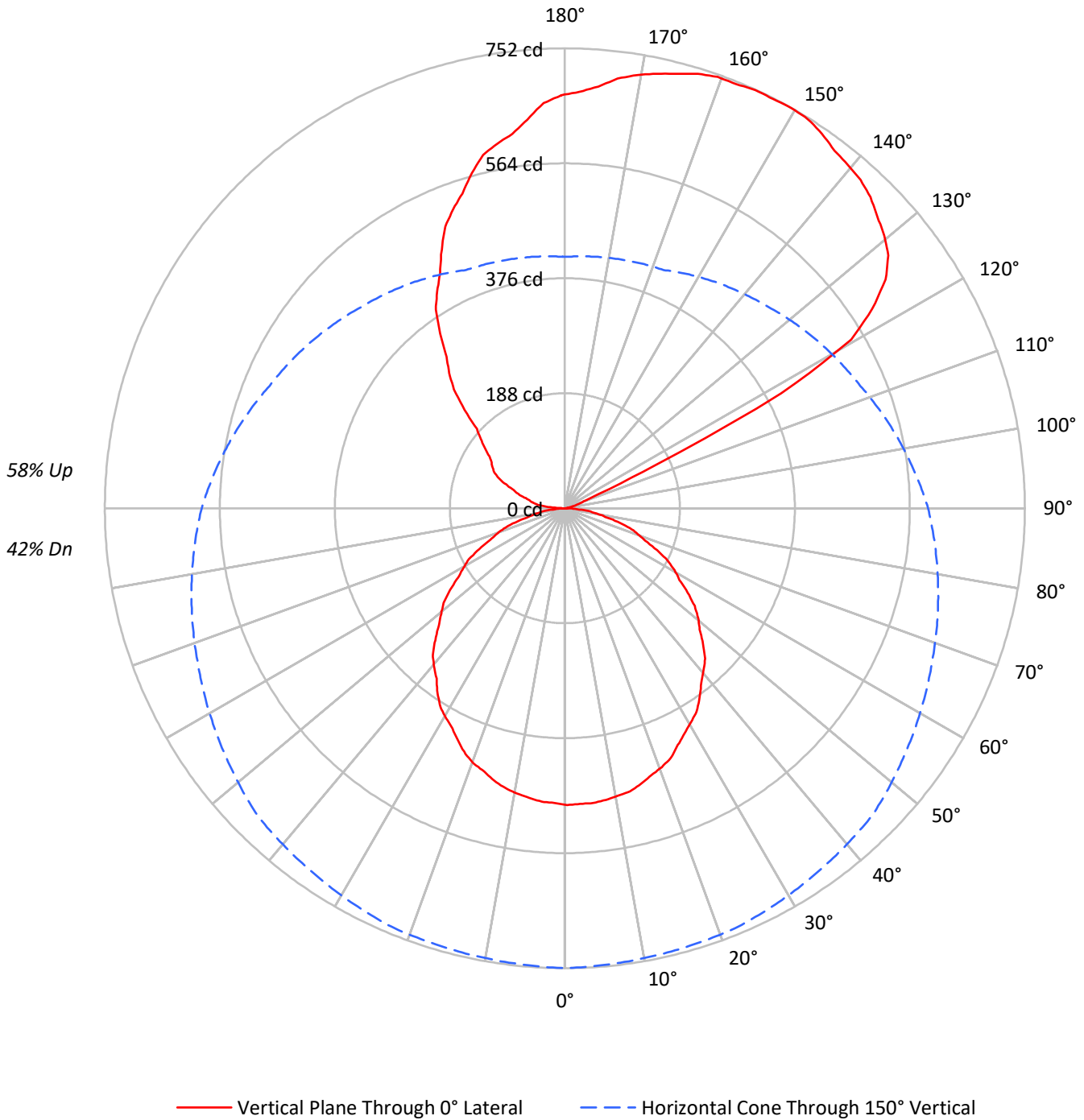
Lumens per Lamp: N/A
Luminaire Lumens: 3237.7 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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°	7837	7837	7837
5°	7851	7919	7799
10°	7838	7907	7753
15°	7816	7870	7694
20°	7765	7820	7622
25°	7641	7735	7473
30°	7567	7646	7353
35°	7486	7567	7238
40°	7364	7453	7078
45°	7238	7334	6903
50°	7096	7201	6674
55°	6863	7037	6480
60°	6655	6859	6216
65°	6315	6674	5914
70°	5976	6373	5533
75°	5546	5876	4959
80°	4965	5151	4379
85°	3687	3872	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.4
10°-20°	131.3	4.1
20°-30°	197.4	6.1
30°-40°	236.1	7.3
40°-50°	242.7	7.5
50°-60°	216.8	6.7
60°-70°	164.7	5.1
70°-80°	94.1	2.9
80°-90°	24.9	0.8
90°-100°	17.7	0.5
100°-110°	76.8	2.4
110°-120°	219.1	6.8
120°-130°	333.2	10.3
130°-140°	360.4	11.1
140°-150°	344.3	10.6
150°-160°	283.2	8.7
160°-170°	185.0	5.7
170°-180°	64.0	2.0
0°-30°	374.7	11.6
0°-40°	610.8	18.9
0°-60°	1070.2	33.1
0°-90°	1353.9	41.8
90°-120°	313.7	9.7
90°-150°	1351.6	41.7
90°-180°	1884.0	58.2
0°-180°	3237.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	485	485	485	485	485	
5°	484	484	489	483	481	46
15°	468	469	471	464	460	132
25°	429	434	434	427	420	198
35°	380	385	384	376	367	237
45°	317	321	321	312	302	244
55°	244	248	250	238	230	218
65°	165	170	175	162	155	164
75°	89	92	94	85	80	94
85°	20	23	21	19	16	24
90°	0	0	0	0	0	1
95°	3	4	12	29	27	4
105°	18	45	89	61	65	21
115°	162	430	222	106	119	222
125°	644	567	355	174	150	566
135°	713	645	466	289	229	550
145°	743	695	556	412	351	465
155°	751	718	621	515	468	347
165°	734	718	665	596	568	209
175°	691	693	681	656	638	67
180°	675	675	675	675	675	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4	485.4
2.5°	483.8	484.6	485.4	485.5	489.6	484.7	484.6	483.7	482.1
5°	484.4	484.4	484.4	483.4	488.6	482.4	483.3	481.2	481.2
7.5°	481.4	480.6	480.8	479.7	484.8	478.5	478.5	477.3	477.1
10°	478.1	478.1	479.1	477.2	482.3	475.1	476.0	473.9	472.9
12.5°	474.8	473.9	475.0	473.0	478.1	470.9	471.0	468.1	467.8
15°	467.6	467.6	468.7	466.7	470.8	464.6	464.5	461.3	460.3
17.5°	458.6	458.4	460.7	457.7	461.8	454.6	454.7	451.9	450.3
20°	451.9	450.9	454.0	451.0	455.1	447.9	448.8	443.6	443.6
22.5°	443.6	442.6	446.5	442.6	446.7	439.6	440.4	434.4	433.5
25°	428.9	430.0	434.2	431.1	434.2	427.0	426.8	420.5	419.5
27.5°	416.8	416.0	421.4	417.1	420.1	413.0	413.0	405.5	404.5
30°	405.9	405.9	412.2	407.0	410.1	402.9	403.8	395.4	394.4
32.5°	395.9	395.9	401.3	397.8	400.1	392.9	392.1	384.5	383.5
35°	379.8	379.8	385.0	381.9	383.9	376.8	375.6	367.2	367.2
37.5°	362.0	361.2	366.2	364.1	366.2	359.2	356.7	349.4	348.4
40°	349.4	349.4	353.6	351.6	353.6	347.5	344.2	336.8	335.8
42.5°	336.0	336.0	341.1	339.0	341.1	334.1	330.8	323.5	322.4
45°	317.0	317.0	321.2	320.2	321.2	315.0	311.8	303.4	302.3
47.5°	296.7	295.9	299.8	300.1	301.7	295.0	290.6	282.7	281.6
50°	282.5	282.5	285.6	286.7	286.7	281.5	277.2	266.8	265.7
52.5°	265.7	266.5	269.7	270.8	271.6	264.8	260.5	252.5	251.5
55°	243.8	242.7	247.9	249.0	250.0	243.9	237.5	231.2	230.2
57.5°	221.2	221.0	225.3	226.6	227.4	222.3	215.9	208.8	207.6
60°	206.1	205.1	210.3	212.4	212.4	207.3	200.9	194.5	192.5
62.5°	188.5	190.8	194.4	196.5	198.1	192.2	185.0	179.5	177.4
65°	165.3	166.3	170.5	172.7	174.7	168.6	162.2	156.9	154.8
67.5°	141.7	143.5	146.7	148.8	150.9	144.9	138.5	134.1	132.2
70°	126.6	127.6	130.8	132.9	135.0	129.8	123.4	118.2	117.2
72.5°	111.5	112.5	115.7	117.0	118.2	113.1	107.5	103.9	102.1
75°	88.9	89.9	92.1	93.1	94.2	89.0	84.7	81.6	79.5
77.5°	67.6	67.6	69.7	70.5	70.5	67.4	63.4	60.4	58.8
80°	53.4	53.4	55.4	55.4	55.4	52.4	49.2	47.1	47.1
82.5°	39.1	39.9	42.1	42.0	41.2	39.0	36.6	34.5	34.5
85°	19.9	20.9	23.0	23.0	20.9	20.9	18.8	17.7	15.7
87.5°	5.0	5.8	7.5	8.3	6.7	6.7	5.0	3.3	3.3
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	1.9	2.8	9.9	11.0	9.6	9.6
95°	2.9	2.9	4.0	12.6	12.0	20.4	28.7	26.9	26.9
97.5°	5.8	6.4	9.2	37.3	28.1	27.3	38.7	43.1	43.9
100°	8.6	9.2	13.8	60.9	41.8	35.7	42.4	50.5	52.2
102.5°	11.8	12.8	22.0	95.8	58.8	41.9	48.4	55.5	57.7
105°	17.8	19.4	45.3	160.6	88.8	54.6	60.7	63.7	65.3
107.5°	26.4	33.2	122.0	225.6	126.1	72.2	78.6	78.2	79.7
110°	35.5	49.5	210.9	261.2	153.6	85.8	86.0	90.5	88.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.9	98.5	314.5	295.4	181.1	102.1	92.8	102.9	103.5
115°	161.6	277.6	429.8	343.4	221.8	131.0	105.5	115.3	119.2
117.5°	400.7	483.0	488.9	386.0	262.4	163.3	119.9	124.3	129.4
120°	543.3	560.1	516.4	412.1	289.4	186.3	131.8	130.2	135.8
122.5°	599.2	593.2	538.8	436.5	316.0	210.7	146.5	137.5	141.3
125°	644.2	628.5	566.8	470.2	354.8	247.2	174.2	149.6	149.6
127.5°	671.0	652.7	592.5	500.1	389.7	284.0	207.6	169.2	163.9
130°	686.6	667.0	608.1	520.8	412.6	307.8	231.0	186.1	177.7
132.5°	698.5	680.7	622.7	537.0	435.1	331.2	254.3	207.0	193.3
135°	712.9	697.8	645.3	561.8	466.5	366.2	289.4	243.3	229.2
137.5°	722.2	710.5	665.6	582.1	495.6	400.9	324.8	278.5	265.8
140°	727.3	717.7	675.7	594.2	513.5	423.3	349.6	302.3	290.6
142.5°	732.3	724.6	683.0	607.6	530.9	445.6	373.9	326.6	313.9
145°	742.7	733.8	695.2	623.7	555.9	476.9	411.5	361.9	350.7
147.5°	750.1	739.3	705.1	641.1	579.5	505.2	446.0	398.2	387.1
150°	751.9	740.7	710.7	650.3	593.7	522.6	467.1	421.6	410.9
152.5°	750.5	742.0	714.8	658.2	605.7	539.4	486.3	444.0	434.3
155°	751.3	743.5	718.1	668.9	620.7	563.0	515.2	477.7	467.7
157.5°	747.9	742.7	720.4	677.0	634.5	584.0	541.7	510.2	500.0
160°	747.9	740.1	720.4	681.7	644.2	597.7	558.2	529.9	521.5
162.5°	742.9	735.9	719.9	685.1	653.3	610.4	573.8	547.4	541.2
165°	733.6	728.0	717.5	689.5	664.8	627.8	596.0	572.4	568.5
167.5°	726.4	718.6	712.9	689.3	672.6	640.3	614.8	595.3	593.0
170°	718.1	713.1	708.4	688.0	676.3	649.4	628.1	608.6	606.3
172.5°	707.6	704.8	702.4	687.2	678.6	657.0	639.6	621.8	617.8
175°	691.2	693.4	692.9	685.3	680.8	666.8	656.2	643.5	638.4
177.5°	681.1	680.2	682.5	681.1	680.6	672.1	669.2	660.5	663.2
180°	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1

(END OF REPORT)