

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: P522303

Luminaire Tested: **SQW-F-025U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522303
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

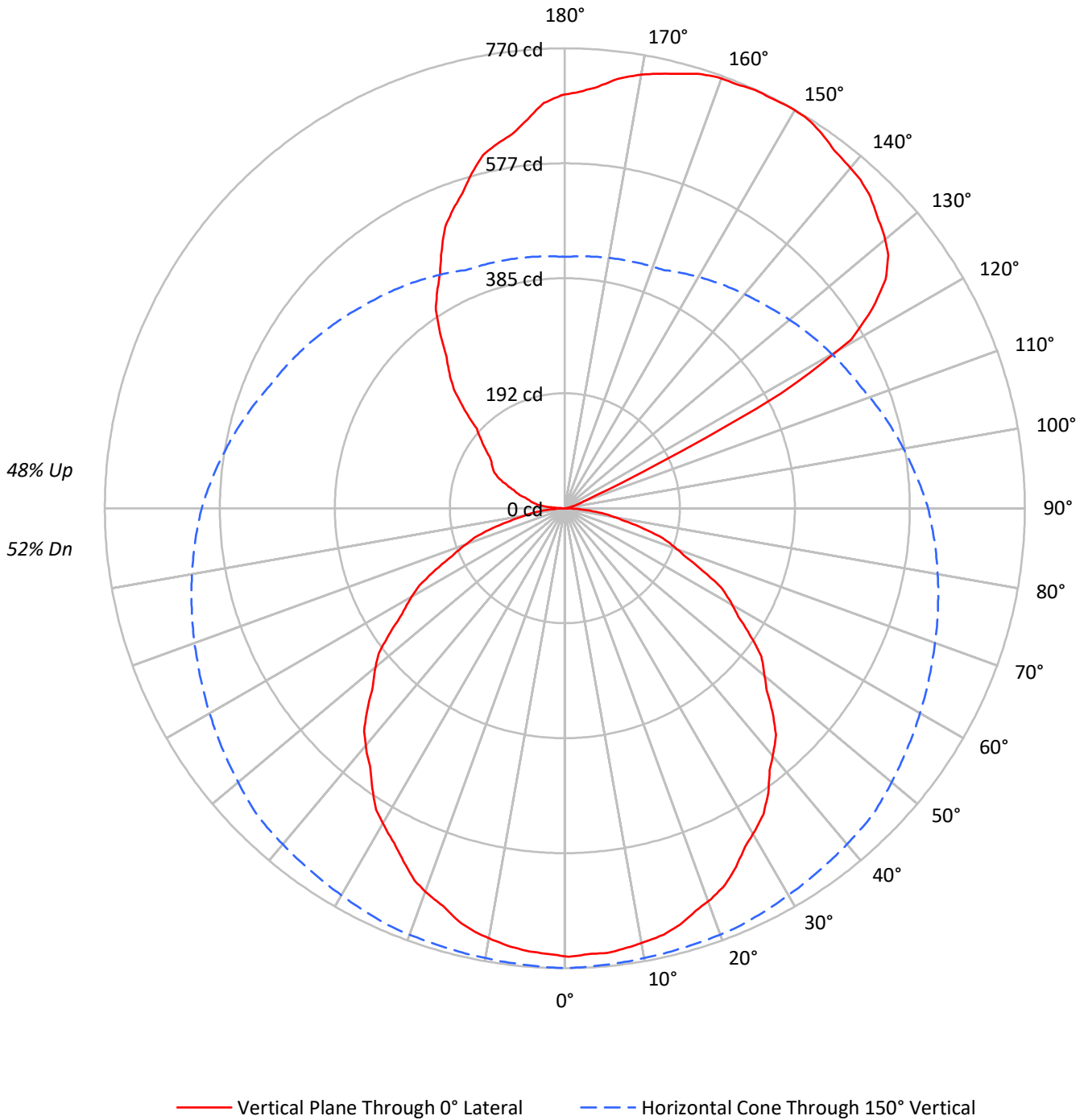
Lumens per Lamp: N/A
Luminaire Lumens: 4023.8 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.2
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°	12124	12124	12124
5°	12118	12238	12065
10°	12099	12222	12013
15°	12085	12157	11925
20°	12000	12091	11778
25°	11851	11965	11583
30°	11682	11842	11423
35°	11548	11696	11211
40°	11333	11535	11017
45°	11129	11373	10762
50°	10844	11165	10492
55°	10612	10914	10100
60°	10308	10689	9720
65°	9738	10231	9165
70°	9201	9758	8545
75°	8484	8952	7817
80°	7373	7866	6574
85°	5558	6150	4965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.8
10°-20°	203.0	5.0
20°-30°	305.4	7.6
30°-40°	364.6	9.1
40°-50°	375.0	9.3
50°-60°	337.4	8.4
60°-70°	255.2	6.3
70°-80°	145.1	3.6
80°-90°	38.4	1.0
90°-100°	18.2	0.5
100°-110°	78.7	2.0
110°-120°	224.4	5.6
120°-130°	341.1	8.5
130°-140°	369.0	9.2
140°-150°	352.5	8.8
150°-160°	289.9	7.2
160°-170°	189.5	4.7
170°-180°	65.5	1.6
0°-30°	579.4	14.4
0°-40°	944.0	23.5
0°-60°	1656.4	41.2
0°-90°	2095.0	52.1
90°-120°	321.2	8.0
90°-150°	1383.8	34.4
90°-180°	1929.0	47.9
0°-180°	4023.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	751	751	751	751	751	
5°	748	748	755	748	744	71
15°	723	724	727	719	713	204
25°	665	672	672	662	650	306
35°	586	592	593	581	569	366
45°	487	494	498	482	471	375
55°	377	384	388	373	359	337
65°	255	262	268	252	240	254
75°	136	140	144	133	125	144
85°	30	34	33	30	27	36
90°	0	0	0	0	0	1
95°	3	4	12	29	28	4
105°	18	46	91	62	67	21
115°	166	440	227	108	122	228
125°	660	580	363	178	153	580
135°	730	661	478	296	235	563
145°	760	712	569	421	359	476
155°	769	735	636	528	479	355
165°	751	735	681	610	582	213
175°	708	709	697	672	654	69
180°	691	691	691	691	691	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	747.4	749.9	750.0	749.3	756.0	749.3	750.9	749.1	746.6
5°	747.7	747.7	747.7	746.8	755.1	745.7	747.7	744.4	744.4
7.5°	743.2	743.4	744.2	741.4	750.6	740.2	742.1	738.7	739.5
10°	738.0	739.1	739.1	737.1	745.5	735.0	736.9	732.7	732.7
12.5°	732.9	733.1	733.9	731.1	739.5	728.2	730.1	725.8	724.9
15°	723.0	723.0	724.1	720.0	727.3	716.8	718.7	713.4	713.4
17.5°	708.7	708.5	711.0	705.6	713.2	701.4	705.2	698.5	696.7
20°	698.4	697.3	701.6	695.4	703.7	691.2	694.1	686.6	685.5
22.5°	685.5	684.5	690.5	684.2	691.7	679.2	682.1	672.0	671.8
25°	665.2	664.1	671.6	665.3	671.6	660.1	662.0	651.2	650.2
27.5°	642.0	642.0	650.8	643.5	650.6	639.1	639.9	629.0	629.0
30°	626.6	626.6	636.3	628.9	635.2	623.7	624.5	612.7	612.7
32.5°	610.3	610.3	618.3	612.6	618.9	607.4	607.3	595.5	595.5
35°	585.9	583.8	592.3	587.1	593.4	581.9	580.6	568.8	568.8
37.5°	556.6	555.5	564.9	561.2	566.2	554.9	551.8	540.5	541.6
40°	537.7	536.7	545.2	543.2	547.3	536.9	531.3	521.7	522.7
42.5°	518.0	516.1	524.6	523.5	527.6	517.2	512.4	501.9	502.1
45°	487.4	487.4	493.8	493.9	498.1	486.6	482.0	471.3	471.3
47.5°	454.8	455.0	461.7	462.0	465.9	455.9	450.9	439.4	439.2
50°	431.7	432.7	440.2	441.4	444.5	436.1	429.5	418.8	417.7
52.5°	412.0	410.5	418.0	419.9	422.2	413.9	407.2	396.5	395.5
55°	377.0	378.1	384.5	387.7	387.7	380.4	372.8	362.0	358.8
57.5°	342.3	343.8	349.0	353.1	354.1	345.9	338.0	328.3	324.1
60°	319.2	318.2	326.7	329.9	331.0	323.6	314.9	305.2	301.0
62.5°	294.3	295.0	301.0	305.9	307.0	298.8	290.9	278.6	275.3
65°	254.9	258.1	262.4	265.7	267.8	261.5	251.7	242.0	239.9
67.5°	218.9	221.0	225.4	230.3	231.6	224.5	215.7	207.3	205.0
70°	194.9	197.0	201.4	204.6	206.7	200.4	191.7	184.2	181.0
72.5°	171.0	173.0	176.5	179.8	181.9	175.6	167.7	161.0	158.7
75°	136.0	138.1	140.3	142.5	143.5	139.3	132.8	126.4	125.3
77.5°	101.5	103.6	106.0	108.8	107.8	104.8	98.5	94.2	93.0
80°	79.3	81.4	84.6	85.7	84.6	82.5	77.1	72.8	70.7
82.5°	58.7	60.8	64.1	64.2	62.3	61.9	57.4	54.0	52.7
85°	30.0	32.1	34.3	35.3	33.2	33.2	30.0	26.8	26.8
87.5°	6.0	7.7	10.3	12.8	10.3	11.1	8.6	6.0	6.0
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	10.2	11.3	9.9	9.9
95°	2.9	2.9	4.1	12.9	12.3	20.9	29.3	27.6	27.6
97.5°	6.0	6.6	9.4	38.2	28.8	27.9	39.7	44.1	44.9
100°	8.8	9.4	14.1	62.3	42.8	36.5	43.4	51.7	53.4
102.5°	12.1	13.1	22.5	98.1	60.2	42.9	49.5	56.8	59.0
105°	18.2	19.9	46.4	164.4	91.0	56.0	62.2	65.2	66.9
107.5°	27.0	34.0	124.9	231.0	129.1	73.9	80.5	80.1	81.6
110°	36.4	50.7	215.9	267.4	157.3	87.8	88.0	92.7	91.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	60.3	100.8	322.0	302.5	185.4	104.5	95.1	105.4	106.0
115°	165.5	284.2	440.1	351.6	227.1	134.1	108.0	118.0	122.1
117.5°	410.3	494.5	500.5	395.2	268.6	167.2	122.8	127.2	132.5
120°	556.3	573.5	528.7	422.0	296.3	190.8	135.0	133.3	139.1
122.5°	613.5	607.3	551.7	446.9	323.6	215.7	150.0	140.8	144.7
125°	659.5	643.5	580.3	481.4	363.2	253.1	178.4	153.1	153.1
127.5°	687.0	668.3	606.6	512.0	399.0	290.8	212.5	173.2	167.8
130°	703.0	682.9	622.6	533.2	422.5	315.2	236.5	190.5	181.9
132.5°	715.2	696.9	637.6	549.8	445.5	339.1	260.4	212.0	197.9
135°	730.0	714.5	660.7	575.2	477.6	374.9	296.3	249.1	234.7
137.5°	739.5	727.4	681.5	596.0	507.4	410.5	332.6	285.1	272.1
140°	744.6	734.9	691.8	608.4	525.8	433.4	357.9	309.5	297.5
142.5°	749.8	741.9	699.3	622.1	543.6	456.3	382.8	334.4	321.4
145°	760.5	751.3	711.8	638.6	569.2	488.3	421.3	370.6	359.1
147.5°	768.0	757.0	722.0	656.3	593.4	517.3	456.6	407.7	396.3
150°	769.9	758.4	727.6	665.9	607.9	535.0	478.2	431.6	420.7
152.5°	768.4	759.7	731.8	673.9	620.1	552.3	497.9	454.6	444.7
155°	769.3	761.2	735.2	684.8	635.5	576.4	527.5	489.1	478.8
157.5°	765.7	760.5	737.6	693.2	649.7	597.9	554.6	522.3	511.9
160°	765.7	757.7	737.6	698.0	659.5	611.9	571.5	542.6	534.0
162.5°	760.6	753.5	737.1	701.4	668.9	625.0	587.5	560.5	554.2
165°	751.1	745.3	734.6	705.9	680.7	642.8	610.3	586.1	582.1
167.5°	743.7	735.8	730.0	705.7	688.6	655.6	629.5	609.5	607.2
170°	735.2	730.1	725.3	704.4	692.4	664.9	643.1	623.1	620.8
172.5°	724.4	721.6	719.2	703.6	694.7	672.7	654.8	636.7	632.5
175°	707.7	710.0	709.4	701.7	697.1	682.8	671.9	658.8	653.7
177.5°	697.3	696.4	698.7	697.3	696.9	688.1	685.1	676.3	679.0
180°	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2	691.2

(END OF REPORT)