

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: P522288

Luminaire Tested: **SQW-F-025U-025D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522288
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2960.9 lumens
Efficiency: N/A
Efficacy: 104.3 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

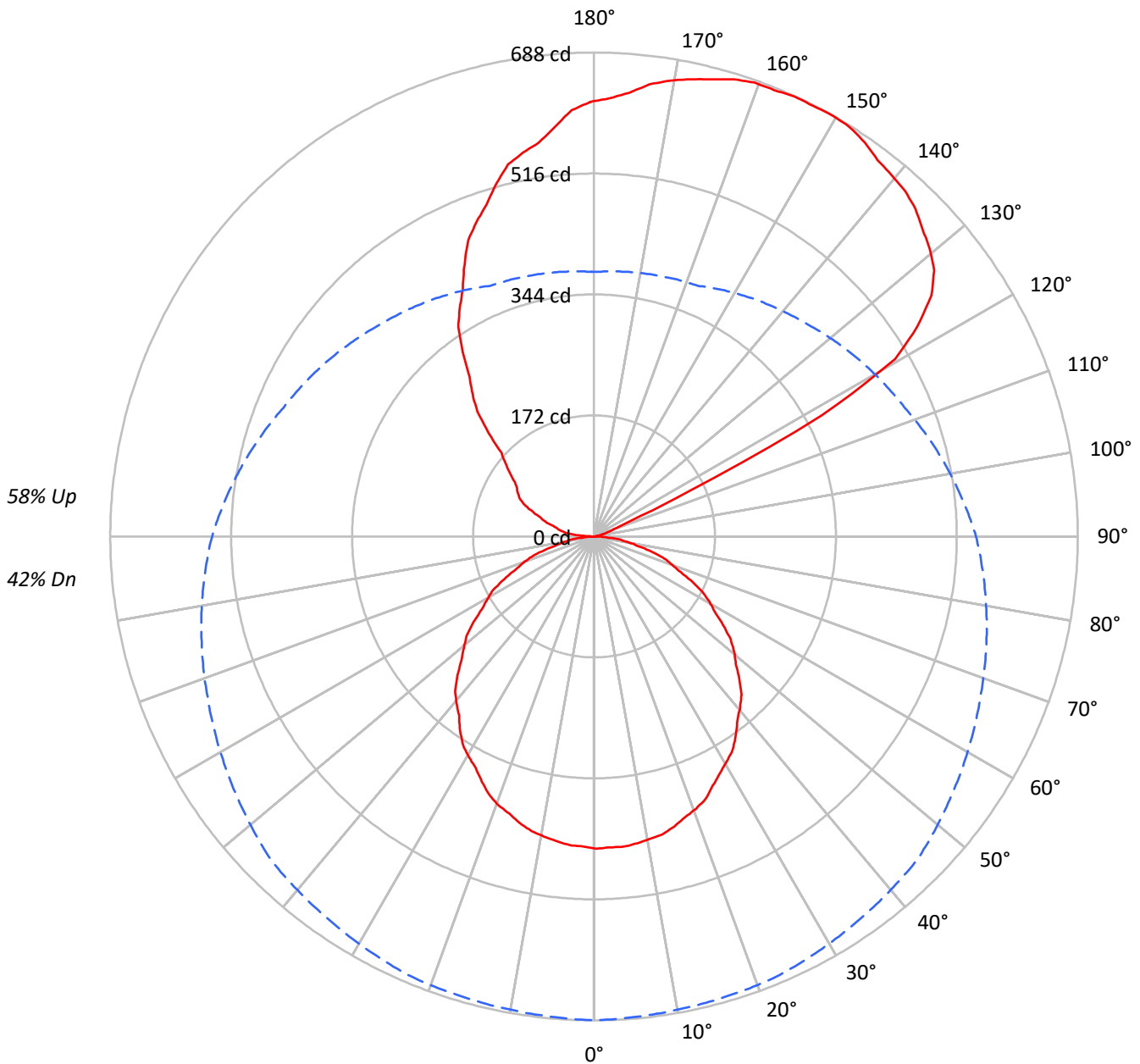
Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 150° 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	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°	7167	7167	7167
5°	7180	7242	7133
10°	7168	7232	7089
15°	7149	7196	7037
20°	7101	7151	6971
25°	6989	7073	6836
30°	6921	6991	6725
35°	6845	6920	6619
40°	6736	6816	6473
45°	6619	6706	6314
50°	6488	6584	6104
55°	6275	6438	5925
60°	6087	6271	5683
65°	5776	6105	5410
70°	5467	5825	5061
75°	5072	5371	4535
80°	4537	4714	4007
85°	3372	3538	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	1.4
10°-20°	120.1	4.1
20°-30°	180.5	6.1
30°-40°	215.9	7.3
40°-50°	221.9	7.5
50°-60°	198.3	6.7
60°-70°	150.6	5.1
70°-80°	86.1	2.9
80°-90°	22.8	0.8
90°-100°	16.2	0.5
100°-110°	70.3	2.4
110°-120°	200.4	6.8
120°-130°	304.7	10.3
130°-140°	329.6	11.1
140°-150°	314.9	10.6
150°-160°	259.0	8.7
160°-170°	169.2	5.7
170°-180°	58.5	2.0
0°-30°	342.6	11.6
0°-40°	558.5	18.9
0°-60°	978.7	33.1
0°-90°	1238.2	41.8
90°-120°	286.9	9.7
90°-150°	1236.0	41.7
90°-180°	1723.0	58.2
0°-180°	2960.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	443	443	447	442	440	42
15°	428	429	430	425	421	121
25°	392	397	397	390	384	181
35°	347	352	351	344	336	217
45°	290	294	294	285	276	223
55°	223	227	229	217	210	199
65°	151	156	160	148	142	150
75°	81	84	86	78	73	86
85°	18	21	19	17	14	22
90°	0	0	0	0	0	1
95°	3	4	11	26	25	3
105°	16	41	81	56	60	19
115°	148	393	203	96	109	203
125°	589	518	324	159	137	518
135°	652	590	427	265	210	503
145°	679	636	508	376	321	425
155°	687	657	568	471	428	317
165°	671	656	608	545	520	191
175°	632	634	623	600	584	61
180°	617	617	617	617	617	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9
2.5°	442.4	443.1	443.9	444.0	447.8	443.3	443.2	442.4	440.9
5°	443.0	443.0	443.0	442.1	446.8	441.2	442.0	440.1	440.1
7.5°	440.3	439.5	439.7	438.7	443.4	437.6	437.6	436.5	436.3
10°	437.2	437.2	438.2	436.4	441.1	434.5	435.3	433.4	432.4
12.5°	434.2	433.4	434.4	432.6	437.2	430.7	430.7	428.0	427.9
15°	427.7	427.7	428.6	426.8	430.5	424.9	424.8	421.9	421.0
17.5°	419.4	419.2	421.3	418.6	422.3	415.8	415.8	413.3	411.8
20°	413.3	412.4	415.2	412.4	416.2	409.6	410.4	405.7	405.7
22.5°	405.7	404.7	408.3	404.8	408.5	402.0	402.8	397.2	396.5
25°	392.3	393.2	397.0	394.2	397.0	390.5	390.4	384.6	383.7
27.5°	381.2	380.4	385.4	381.4	384.2	377.7	377.7	370.8	369.9
30°	371.2	371.2	377.0	372.2	375.0	368.5	369.3	361.6	360.7
32.5°	362.0	362.0	367.0	363.8	365.9	359.3	358.6	351.7	350.7
35°	347.3	347.3	352.1	349.3	351.1	344.6	343.5	335.8	335.8
37.5°	331.0	330.3	334.9	333.0	334.9	328.5	326.2	319.5	318.6
40°	319.6	319.6	323.4	321.5	323.4	317.8	314.8	308.0	307.1
42.5°	307.3	307.3	311.9	310.0	311.9	305.5	302.5	295.8	294.9
45°	289.9	289.9	293.7	292.8	293.7	288.1	285.1	277.4	276.5
47.5°	271.3	270.6	274.2	274.4	275.9	269.7	265.8	258.5	257.6
50°	258.3	258.3	261.2	262.1	262.1	257.5	253.5	243.9	243.0
52.5°	243.0	243.8	246.6	247.6	248.4	242.2	238.2	230.9	230.0
55°	222.9	222.0	226.7	227.7	228.7	223.0	217.2	211.4	210.5
57.5°	202.3	202.1	206.1	207.2	208.0	203.3	197.5	190.9	189.8
60°	188.5	187.5	192.3	194.2	194.2	189.5	183.7	177.9	176.0
62.5°	172.4	174.5	177.8	179.7	181.2	175.8	169.2	164.1	162.3
65°	151.2	152.1	155.9	157.9	159.8	154.2	148.3	143.5	141.6
67.5°	129.5	131.2	134.1	136.1	138.0	132.5	126.7	122.6	120.9
70°	115.8	116.7	119.6	121.5	123.4	118.7	112.9	108.1	107.2
72.5°	102.0	102.9	105.8	107.0	108.1	103.4	98.4	95.1	93.4
75°	81.3	82.3	84.2	85.2	86.1	81.4	77.5	74.6	72.7
77.5°	61.8	61.8	63.7	64.5	64.5	61.7	58.0	55.3	53.8
80°	48.8	48.8	50.7	50.7	50.7	47.9	45.0	43.1	43.1
82.5°	35.8	36.5	38.5	38.4	37.7	35.6	33.5	31.6	31.6
85°	18.2	19.1	21.0	21.0	19.1	19.1	17.2	16.2	14.4
87.5°	4.6	5.3	6.9	7.6	6.1	6.1	4.6	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°	0.8	0.8	0.8	1.7	2.5	9.1	10.1	8.8	8.8
95°	2.6	2.6	3.7	11.5	11.0	18.7	26.2	24.6	24.6
97.5°	5.3	5.9	8.4	34.1	25.7	25.0	35.4	39.4	40.1
100°	7.9	8.4	12.6	55.7	38.3	32.6	38.8	46.2	47.7
102.5°	10.8	11.7	20.1	87.6	53.8	38.3	44.2	50.8	52.7
105°	16.2	17.8	41.4	146.8	81.2	50.0	55.6	58.2	59.7
107.5°	24.1	30.4	111.5	206.3	115.3	66.0	71.9	71.5	72.9
110°	32.5	45.3	192.9	238.9	140.5	78.5	78.6	82.8	81.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	53.9	90.1	287.6	270.2	165.6	93.4	84.9	94.1	94.7
115°	147.8	253.9	393.1	314.0	202.8	119.8	96.4	105.4	109.0
117.5°	366.5	441.7	447.1	353.0	239.9	149.3	109.6	113.6	118.3
120°	496.9	512.2	472.2	376.9	264.7	170.4	120.5	119.1	124.2
122.5°	548.0	542.5	492.8	399.2	289.0	192.7	134.0	125.8	129.2
125°	589.1	574.8	518.3	430.0	324.4	226.0	159.3	136.8	136.8
127.5°	613.6	596.9	541.8	457.4	356.4	259.7	189.8	154.7	149.9
130°	627.9	610.0	556.1	476.3	377.4	281.5	211.2	170.2	162.5
132.5°	638.8	622.5	569.5	491.1	397.9	302.9	232.6	189.3	176.7
135°	652.0	638.2	590.2	513.7	426.6	334.9	264.7	222.5	209.6
137.5°	660.5	649.7	608.7	532.4	453.3	366.6	297.1	254.7	243.1
140°	665.1	656.4	617.9	543.4	469.6	387.1	319.7	276.5	265.7
142.5°	669.7	662.6	624.6	555.6	485.5	407.5	341.9	298.7	287.1
145°	679.3	671.1	635.7	570.4	508.4	436.1	376.3	331.0	320.8
147.5°	686.0	676.1	644.9	586.3	530.0	462.0	407.9	364.1	354.0
150°	687.6	677.4	649.9	594.7	543.0	477.9	427.2	385.5	375.8
152.5°	686.4	678.6	653.7	602.0	553.9	493.3	444.8	406.1	397.2
155°	687.1	679.9	656.7	611.7	567.6	514.8	471.2	436.9	427.7
157.5°	684.0	679.3	658.8	619.1	580.3	534.1	495.4	466.6	457.2
160°	684.0	676.8	658.8	623.4	589.1	546.6	510.5	484.6	476.9
162.5°	679.4	673.0	658.4	626.5	597.5	558.2	524.7	500.6	495.0
165°	670.9	665.7	656.2	630.5	608.0	574.1	545.1	523.5	519.9
167.5°	664.3	657.2	652.0	630.4	615.1	585.6	562.3	544.4	542.4
170°	656.7	652.1	647.8	629.2	618.5	593.9	574.4	556.6	554.5
172.5°	647.1	644.5	642.4	628.4	620.6	600.9	584.9	568.7	565.0
175°	632.1	634.1	633.7	626.7	622.6	609.8	600.1	588.5	583.9
177.5°	622.9	622.0	624.1	622.8	622.4	614.6	612.0	604.0	606.5
180°	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4

(END OF REPORT)