

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: P522328

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522328
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-050U-025D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

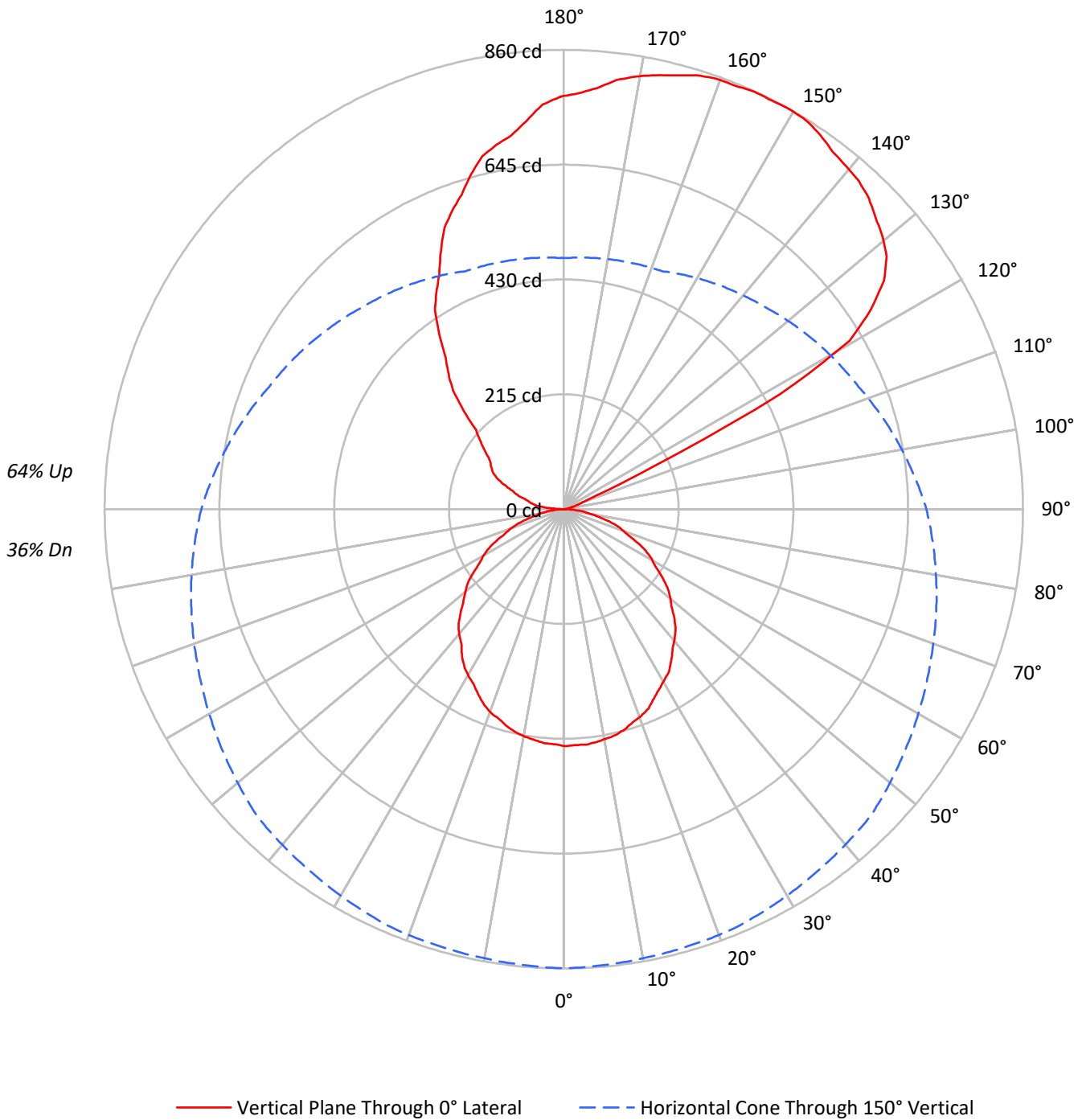
Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 31.8
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	34	32	31	25
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	30	28	26	21
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	24	22	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16
6	60	49	41	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	40	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

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	1.2
10°-20°	120.1	3.5
20°-30°	180.5	5.3
30°-40°	215.9	6.4
40°-50°	221.9	6.5
50°-60°	198.3	5.8
60°-70°	150.6	4.4
70°-80°	86.1	2.5
80°-90°	22.8	0.7
90°-100°	20.3	0.6
100°-110°	87.9	2.6
110°-120°	250.7	7.4
120°-130°	381.1	11.2
130°-140°	412.2	12.1
140°-150°	393.9	11.6
150°-160°	323.9	9.5
160°-170°	211.7	6.2
170°-180°	73.2	2.2
0°-30°	342.6	10.1
0°-40°	558.5	16.5
0°-60°	978.7	28.8
0°-90°	1238.2	36.5
90°-120°	358.9	10.6
90°-150°	1546.1	45.6
90°-180°	2155.0	63.5
0°-180°	3393.0	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	5	14	33	31	4
105°	20	52	102	70	75	23
115°	185	492	254	121	136	254
125°	737	648	406	199	171	648
135°	816	738	534	331	262	629
145°	850	795	636	471	401	532
155°	860	821	710	589	535	397
165°	839	821	760	682	650	239
175°	791	793	779	751	730	77
180°	772	772	772	772	772	



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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°	1.0	1.0	1.0	2.1	3.1	11.4	12.6	11.0	11.0
95°	3.3	3.3	4.6	14.4	13.8	23.4	32.8	30.8	30.8
97.5°	6.7	7.3	10.5	42.6	32.1	31.2	44.3	49.3	50.2
100°	9.8	10.5	15.7	69.7	47.9	40.8	48.5	57.7	59.7
102.5°	13.5	14.7	25.2	109.6	67.3	47.9	55.3	63.5	66.0
105°	20.3	22.2	51.8	183.7	101.6	62.5	69.5	72.8	74.7
107.5°	30.2	38.0	139.5	258.1	144.2	82.6	89.9	89.5	91.1
110°	40.6	56.7	241.3	298.8	175.7	98.1	98.3	103.5	101.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	67.4	112.6	359.8	337.9	207.2	116.8	106.2	117.8	118.4
115°	184.9	317.6	491.7	392.8	253.7	149.9	120.6	131.9	136.4
117.5°	458.4	552.5	559.2	441.5	300.1	186.8	137.1	142.1	148.0
120°	621.5	640.7	590.7	471.4	331.1	213.1	150.8	149.0	155.4
122.5°	685.5	678.5	616.4	499.3	361.5	241.0	167.6	157.3	161.7
125°	736.9	718.9	648.4	537.8	405.8	282.7	199.3	171.1	171.1
127.5°	767.5	746.6	677.7	572.1	445.8	324.9	237.4	193.5	187.5
130°	785.4	762.9	695.6	595.7	472.0	352.1	264.2	212.8	203.2
132.5°	799.0	778.6	712.3	614.2	497.7	378.9	290.9	236.8	221.1
135°	815.5	798.2	738.2	642.6	533.6	418.9	331.1	278.3	262.2
137.5°	826.2	812.7	761.4	665.9	566.9	458.6	371.6	318.5	304.1
140°	831.9	821.0	772.9	679.7	587.4	484.2	399.9	345.8	332.4
142.5°	837.7	828.8	781.3	695.0	607.3	509.8	427.7	373.6	359.1
145°	849.6	839.4	795.2	713.5	635.9	545.5	470.7	414.0	401.2
147.5°	858.0	845.7	806.6	733.3	662.9	577.9	510.2	455.5	442.8
150°	860.1	847.3	812.9	743.9	679.2	597.8	534.3	482.2	470.0
152.5°	858.5	848.8	817.6	752.9	692.8	617.0	556.3	507.9	496.8
155°	859.5	850.5	821.4	765.1	710.0	644.0	589.4	546.5	534.9
157.5°	855.5	849.6	824.1	774.4	725.9	668.0	619.6	583.6	571.9
160°	855.5	846.5	824.1	779.8	736.9	683.7	638.5	606.2	596.6
162.5°	849.8	841.8	823.5	783.6	747.4	698.3	656.4	626.2	619.1
165°	839.1	832.7	820.8	788.7	760.5	718.2	681.8	654.8	650.3
167.5°	830.9	822.0	815.5	788.5	769.4	732.5	703.3	681.0	678.4
170°	821.4	815.7	810.3	787.0	773.6	742.8	718.5	696.2	693.6
172.5°	809.4	806.2	803.5	786.1	776.2	751.6	731.6	711.3	706.7
175°	790.6	793.2	792.6	783.9	778.8	762.8	750.6	736.1	730.3
177.5°	779.1	778.1	780.7	779.1	778.6	768.8	765.4	755.6	758.6
180°	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3

(END OF REPORT)