

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: P522329

Luminaire Tested: **SQW-F-050U-025D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522329
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3463.4 lumens
Efficiency: N/A
Efficacy: 108.6 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

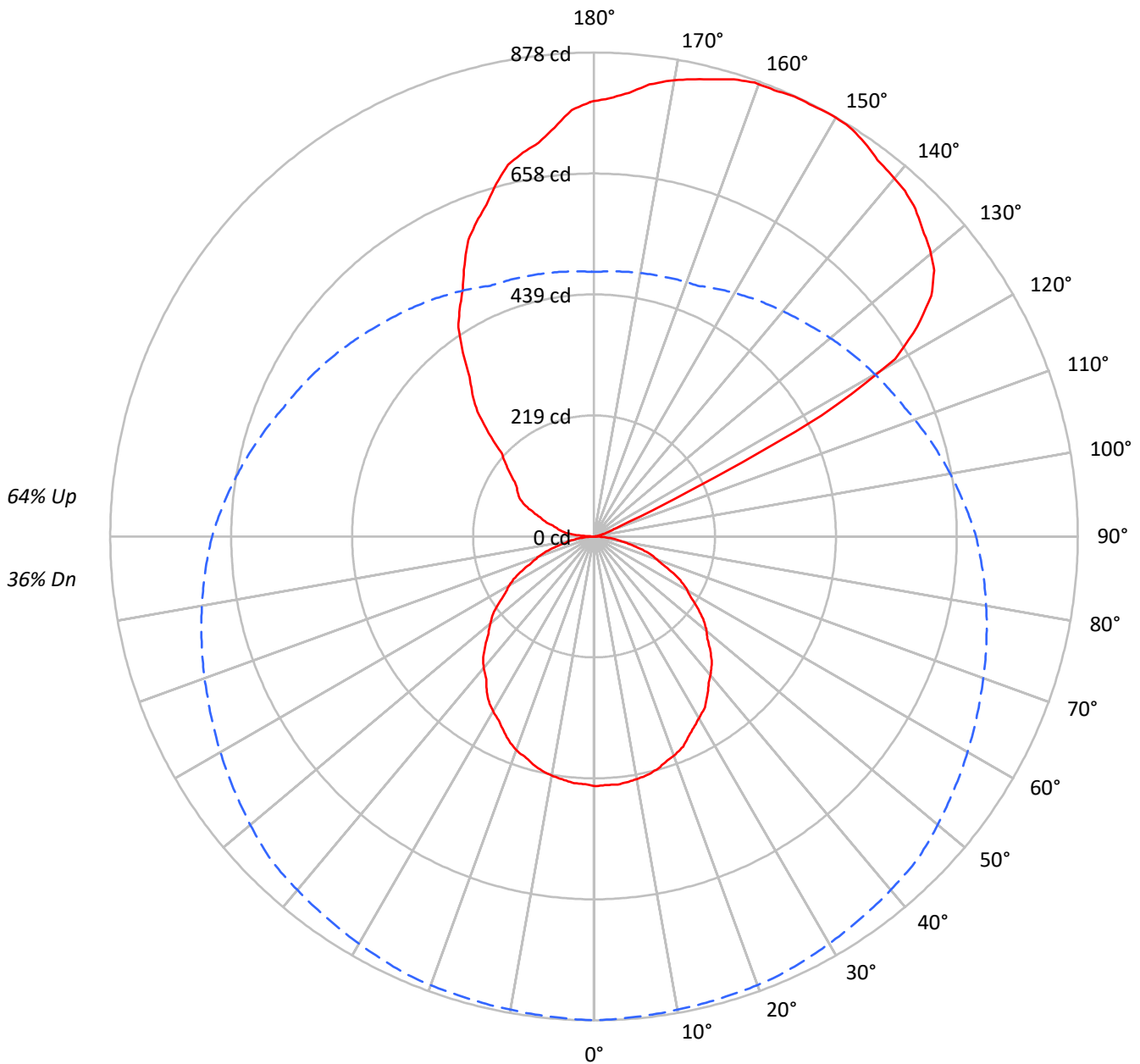
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	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	1.2
10°-20°	122.6	3.5
20°-30°	184.3	5.3
30°-40°	220.4	6.4
40°-50°	226.5	6.5
50°-60°	202.4	5.8
60°-70°	153.7	4.4
70°-80°	87.8	2.5
80°-90°	23.2	0.7
90°-100°	20.7	0.6
100°-110°	89.7	2.6
110°-120°	255.9	7.4
120°-130°	389.0	11.2
130°-140°	420.8	12.1
140°-150°	402.0	11.6
150°-160°	330.7	9.5
160°-170°	216.1	6.2
170°-180°	74.7	2.2
0°-30°	349.7	10.1
0°-40°	570.1	16.5
0°-60°	999.0	28.8
0°-90°	1263.8	36.5
90°-120°	366.3	10.6
90°-150°	1578.1	45.6
90°-180°	2200.0	63.5
0°-180°	3463.4	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	5	14	34	32	4
105°	21	53	104	71	76	24
115°	189	502	259	123	139	260
125°	752	662	414	203	175	661
135°	832	754	545	338	268	642
145°	867	812	649	480	410	543
155°	877	838	725	602	546	405
165°	856	838	776	696	664	243
175°	807	809	795	766	745	78
180°	788	788	788	788	788	



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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°	1.1	1.1	1.1	2.2	3.2	11.6	12.8	11.2	11.2
95°	3.3	3.3	4.7	14.7	14.1	23.9	33.5	31.5	31.5
97.5°	6.8	7.5	10.7	43.5	32.8	31.9	45.2	50.3	51.3
100°	10.0	10.7	16.1	71.1	48.8	41.7	49.5	58.9	60.9
102.5°	13.8	15.0	25.7	111.8	68.7	48.9	56.5	64.8	67.3
105°	20.7	22.7	52.9	187.5	103.7	63.8	70.9	74.3	76.3
107.5°	30.8	38.8	142.4	263.4	147.2	84.3	91.8	91.3	93.0
110°	41.5	57.8	246.3	305.0	179.3	100.2	100.4	105.7	103.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	68.8	115.0	367.2	344.9	211.5	119.2	108.4	120.2	120.9
115°	188.7	324.1	501.9	400.9	259.0	153.0	123.1	134.6	139.2
117.5°	467.9	563.9	570.8	450.7	306.3	190.7	140.0	145.1	151.1
120°	634.4	654.0	602.9	481.2	337.9	217.5	153.9	152.0	158.6
122.5°	699.7	692.6	629.1	509.6	369.0	246.0	171.0	160.6	165.0
125°	752.1	733.8	661.8	549.0	414.2	288.6	203.4	174.7	174.7
127.5°	783.5	762.1	691.8	583.9	455.0	331.6	242.4	197.5	191.4
130°	801.7	778.8	710.0	608.1	481.8	359.4	269.7	217.3	207.4
132.5°	815.6	794.8	727.1	627.0	508.0	386.7	297.0	241.7	225.6
135°	832.4	814.8	753.5	655.9	544.7	427.6	337.9	284.0	267.7
137.5°	843.3	829.5	777.2	679.7	578.7	468.1	379.3	325.1	310.4
140°	849.2	838.0	788.9	693.8	599.6	494.2	408.2	353.0	339.3
142.5°	855.1	846.0	797.5	709.4	619.9	520.3	436.6	381.4	366.6
145°	867.2	856.8	811.7	728.3	649.1	556.8	480.5	422.6	409.5
147.5°	875.8	863.2	823.3	748.5	676.7	589.9	520.7	464.9	452.0
150°	877.9	864.9	829.8	759.3	693.2	610.2	545.4	492.2	479.8
152.5°	876.3	866.4	834.6	768.5	707.2	629.8	567.8	518.5	507.1
155°	877.3	868.1	838.5	781.0	724.7	657.3	601.6	557.8	546.0
157.5°	873.3	867.2	841.1	790.5	740.9	681.9	632.5	595.7	583.8
160°	873.3	864.1	841.1	796.0	752.1	697.8	651.8	618.7	608.9
162.5°	867.4	859.3	840.6	799.9	762.8	712.7	670.0	639.2	632.0
165°	856.5	850.0	837.8	805.0	776.2	733.0	695.9	668.4	663.8
167.5°	848.1	839.1	832.4	804.8	785.3	747.6	717.9	695.1	692.4
170°	838.5	832.6	827.1	803.3	789.6	758.2	733.4	710.6	708.0
172.5°	826.1	822.9	820.1	802.4	792.3	767.2	746.8	726.1	721.4
175°	807.0	809.6	809.0	800.2	795.0	778.6	766.2	751.3	745.4
177.5°	795.2	794.2	796.8	795.2	794.7	784.7	781.3	771.2	774.4
180°	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3

(END OF REPORT)