

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: P522344

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522344
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-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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: 4887.8 lumens
Efficiency: N/A
Efficacy: 99.1 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

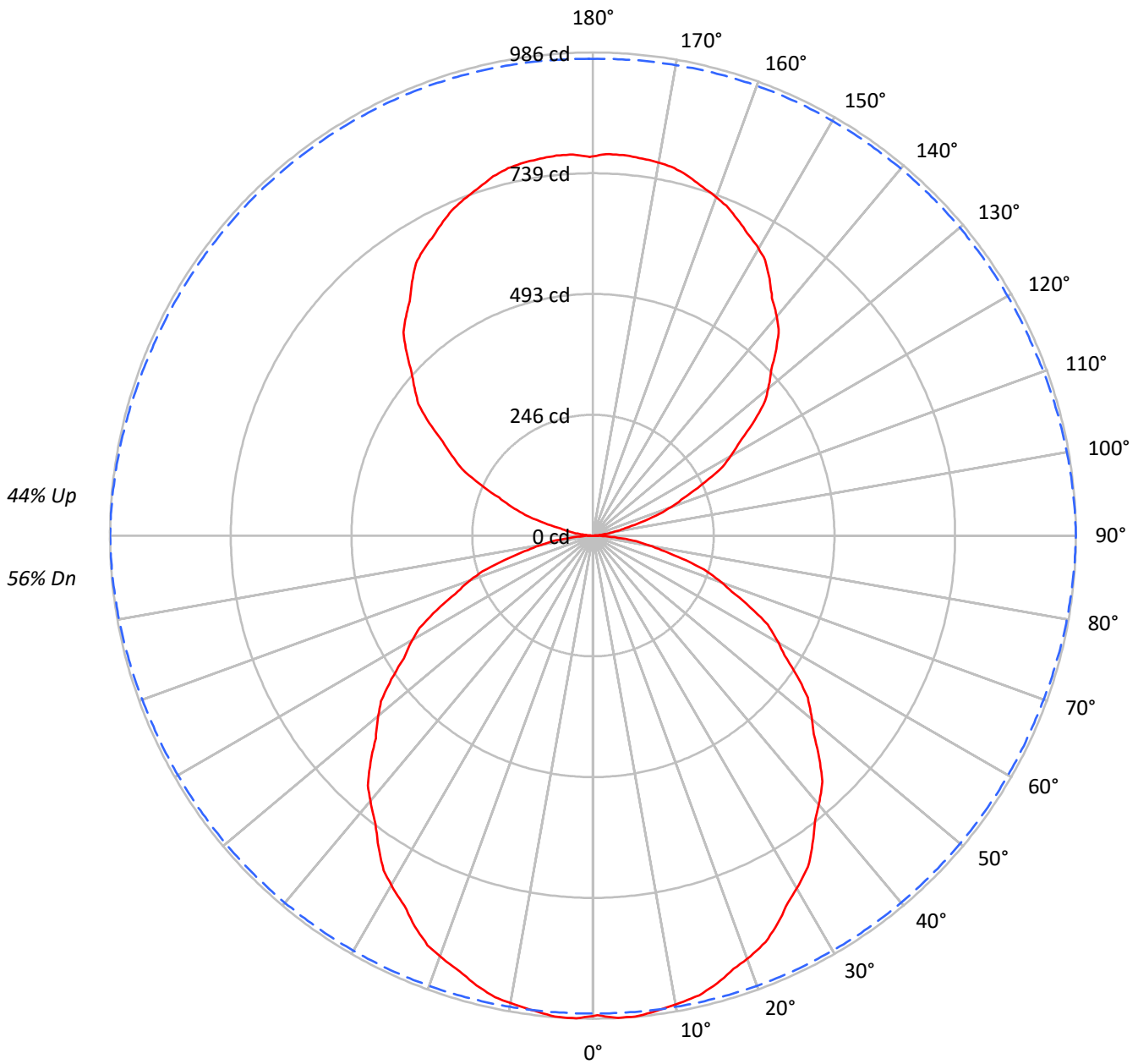
Input Watts (W): 49.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 2.5° Vertical



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56		
1	99	95	91	87	92	88	85	81	76	73	71	65	63	61	54	53	52	47		
2	90	82	76	71	83	77	71	67	66	62	58	57	53	51	48	45	43	39		
3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28		
5	69	57	49	42	64	53	46	40	46	40	36	40	35	32	34	30	27	24		
6	63	51	43	37	59	48	40	35	42	36	31	36	31	28	30	27	24	21		
7	59	46	38	32	54	43	36	31	38	32	27	33	28	24	28	24	21	19		
8	54	42	34	28	50	39	32	27	34	29	24	30	25	22	25	22	19	17		
9	51	38	31	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15		
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15802	15802	15802
5°	15817	15956	15739
10°	15795	15905	15639
15°	15736	15848	15497
20°	15634	15749	15304
25°	15442	15613	15068
30°	15250	15429	14822
35°	15029	15218	14578
40°	14781	15003	14237
45°	14506	14789	13961
50°	14179	14516	13627
55°	13816	14221	13225
60°	13378	13934	12729
65°	12795	13486	12099
70°	12104	12873	11202
75°	11042	11697	10087
80°	9605	10404	8629
85°	7262	8151	6021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.9
10°-20°	264.5	5.4
20°-30°	397.9	8.1
30°-40°	475.3	9.7
40°-50°	488.6	10.0
50°-60°	439.8	9.0
60°-70°	334.7	6.8
70°-80°	189.6	3.9
80°-90°	49.9	1.0
90°-100°	20.3	0.4
100°-110°	87.9	1.8
110°-120°	250.7	5.1
120°-130°	381.1	7.8
130°-140°	412.2	8.4
140°-150°	393.9	8.1
150°-160°	323.9	6.6
160°-170°	211.7	4.3
170°-180°	73.2	1.5
0°-30°	755.0	15.4
0°-40°	1230.3	25.2
0°-60°	2158.7	44.2
0°-90°	2732.9	55.9
90°-120°	358.9	7.3
90°-150°	1546.1	31.6
90°-180°	2155.0	44.1
0°-180°	4887.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	979	979	979	979	979	
5°	976	976	984	973	971	93
15°	941	943	948	936	927	266
25°	867	875	876	861	846	399
35°	762	773	772	756	740	477
45°	635	644	648	629	611	490
55°	491	500	505	486	470	439
65°	335	344	353	332	317	332
75°	177	183	188	172	162	188
85°	39	44	44	39	32	47
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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CATALOG NUMBER: SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7	978.7
2.5°	974.9	977.9	978.0	978.1	985.6	977.4	977.2	977.1	972.6
5°	975.9	975.9	975.9	974.2	984.5	973.3	973.0	971.1	971.1
7.5°	970.3	968.6	969.7	967.7	977.0	964.9	965.5	963.4	963.1
10°	963.4	962.5	964.4	960.8	970.1	958.0	958.6	955.7	953.9
12.5°	955.8	954.8	957.5	952.4	962.5	950.3	950.2	946.6	946.2
15°	941.4	941.4	943.3	939.7	948.1	936.0	935.7	931.8	927.1
17.5°	924.4	922.3	926.9	921.0	929.6	915.9	916.9	911.3	906.0
20°	909.9	907.0	914.6	907.2	916.6	900.7	903.2	894.5	890.7
22.5°	893.0	891.0	899.3	892.6	901.2	886.1	887.1	876.1	873.1
25°	866.8	865.9	875.4	868.0	876.4	860.5	861.1	849.5	845.8
27.5°	837.9	837.2	847.7	840.2	847.5	832.7	833.1	820.4	815.7
30°	818.0	818.0	828.5	821.0	827.6	813.5	813.2	799.7	795.0
32.5°	796.6	795.8	806.3	800.3	806.1	791.4	790.3	777.5	772.9
35°	762.5	762.5	773.0	766.5	772.1	759.0	755.8	743.3	739.6
37.5°	726.5	725.6	736.1	732.0	737.1	723.2	718.9	705.5	704.5
40°	701.3	700.4	710.9	709.0	711.8	698.7	693.6	680.1	675.5
42.5°	675.3	675.8	684.8	683.0	686.6	673.5	668.4	654.2	651.7
45°	635.3	634.3	643.9	643.0	647.7	634.6	628.6	613.2	611.4
47.5°	593.6	593.9	602.4	603.4	606.2	594.2	587.1	571.9	570.0
50°	564.5	566.3	574.0	575.1	577.9	566.6	558.7	544.3	542.5
52.5°	536.2	537.3	545.0	548.2	548.8	539.1	529.6	516.0	514.2
55°	490.8	493.6	500.4	504.2	505.2	496.7	486.0	472.6	469.8
57.5°	444.9	446.8	456.0	460.4	460.6	451.8	441.1	428.5	424.0
60°	414.3	416.1	423.8	430.6	431.5	421.2	410.4	397.9	394.2
62.5°	382.9	384.8	392.5	399.2	400.1	390.6	379.1	366.6	363.6
65°	334.9	336.7	344.4	352.1	353.0	343.7	332.0	319.5	316.7
67.5°	287.8	289.7	297.2	303.5	305.6	295.5	284.7	273.2	269.4
70°	256.4	258.3	265.0	269.9	272.7	263.3	252.6	241.0	237.3
72.5°	223.5	224.6	231.3	236.9	237.5	229.6	219.7	210.4	207.4
75°	177.0	178.9	182.7	188.5	187.5	180.0	172.2	165.4	161.7
77.5°	132.4	134.5	138.2	142.0	142.6	135.6	129.0	122.2	119.6
80°	103.3	106.1	109.1	112.9	111.9	107.3	101.4	94.7	92.8
82.5°	76.5	78.6	82.3	85.3	82.9	79.7	75.4	68.7	66.8
85°	39.2	40.2	44.0	46.8	44.0	43.1	39.2	34.4	32.5
87.5°	8.4	9.9	13.0	16.8	13.8	14.5	11.5	7.6	6.9
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)