

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: P522304

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522304
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-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 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

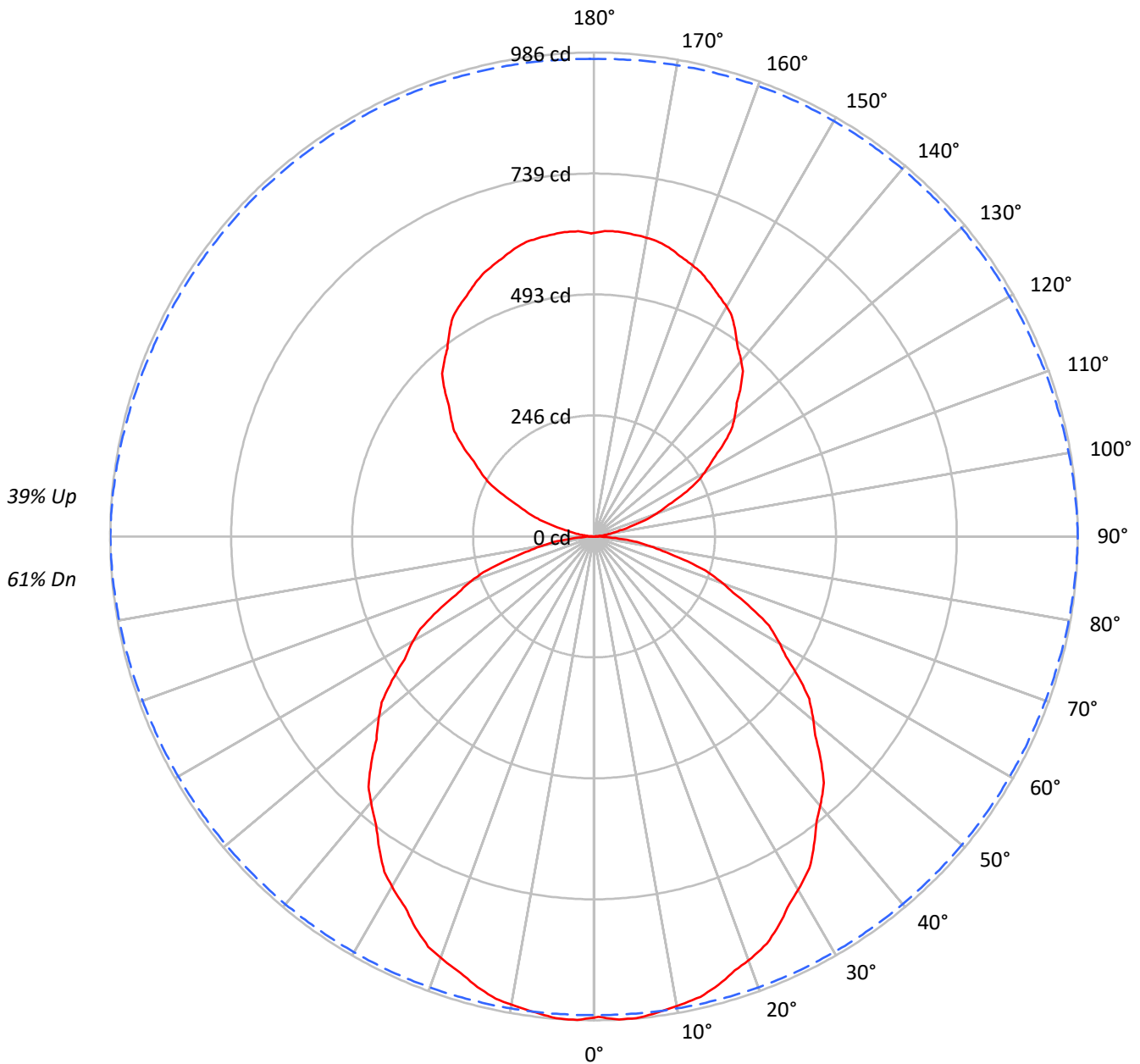
Lumens per Lamp: N/A
Luminaire Lumens: 4455.7 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.9
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 90° Lateral - - - Horizontal Cone Through 2.5° 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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	100	96	92	88	94	90	86	83	78	76	73	68	66	64	59	57	56	51
2	91	83	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47	43
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40	36
4	76	65	57	50	71	61	54	48	54	48	43	47	42	39	40	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	36	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	34	29	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	31	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	19	16
10	48	36	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

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	2.1
10°-20°	264.5	5.9
20°-30°	397.9	8.9
30°-40°	475.3	10.7
40°-50°	488.6	11.0
50°-60°	439.8	9.9
60°-70°	334.7	7.5
70°-80°	189.6	4.3
80°-90°	49.9	1.1
90°-100°	16.2	0.4
100°-110°	70.3	1.6
110°-120°	200.4	4.5
120°-130°	304.7	6.8
130°-140°	329.6	7.4
140°-150°	314.9	7.1
150°-160°	259.0	5.8
160°-170°	169.2	3.8
170°-180°	58.5	1.3
0°-30°	755.0	16.9
0°-40°	1230.3	27.6
0°-60°	2158.7	48.4
0°-90°	2732.9	61.3
90°-120°	286.9	6.4
90°-150°	1236.0	27.7
90°-180°	1723.0	38.7
0°-180°	4455.7	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	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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CATALOG NUMBER: SQW-F-025U-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°	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)