

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: P522308

Luminaire Tested: **SQW-F-025U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522308
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

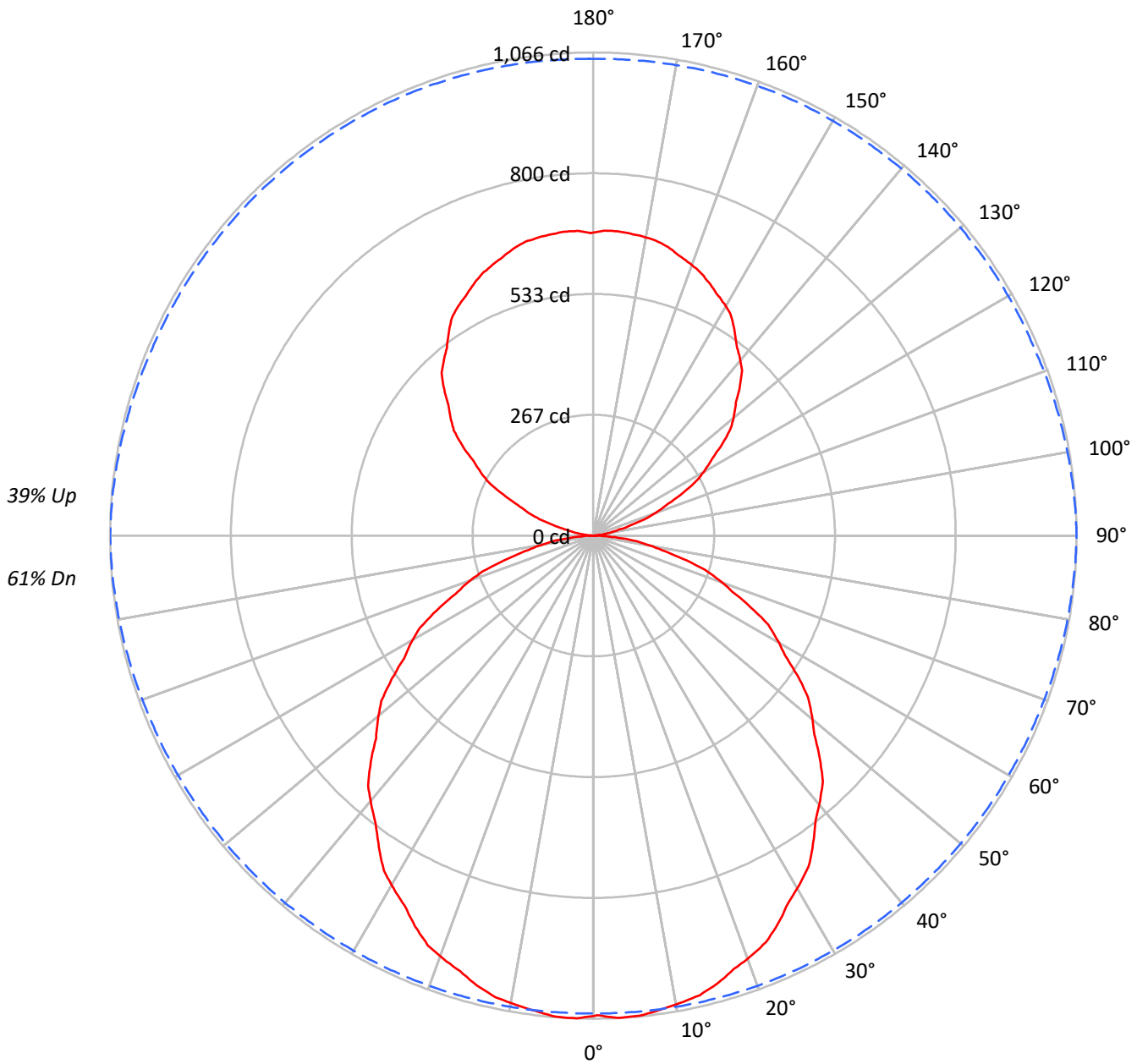
Lumens per Lamp: N/A
Luminaire Lumens: 4818.9 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 46
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°	17090	17090	17090
5°	17105	17256	17021
10°	17084	17202	16913
15°	17020	17140	16759
20°	16907	17033	16551
25°	16702	16885	16295
30°	16494	16686	16032
35°	16255	16458	15764
40°	15985	16225	15397
45°	15689	15995	15098
50°	15335	15699	14737
55°	14942	15378	14300
60°	14467	15071	13766
65°	13838	14586	13085
70°	13091	13921	12113
75°	11940	12651	10911
80°	10386	11260	9335
85°	7855	8818	6521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	2.1
10°-20°	286.1	5.9
20°-30°	430.4	8.9
30°-40°	514.1	10.7
40°-50°	528.5	11.0
50°-60°	475.6	9.9
60°-70°	361.9	7.5
70°-80°	205.1	4.3
80°-90°	53.9	1.1
90°-100°	17.5	0.4
100°-110°	76.0	1.6
110°-120°	216.7	4.5
120°-130°	329.5	6.8
130°-140°	356.4	7.4
140°-150°	340.6	7.1
150°-160°	280.1	5.8
160°-170°	183.0	3.8
170°-180°	63.3	1.3
0°-30°	816.6	16.9
0°-40°	1330.6	27.6
0°-60°	2334.7	48.4
0°-90°	2955.7	61.3
90°-120°	310.3	6.4
90°-150°	1336.8	27.7
90°-180°	1863.0	38.7
0°-180°	4818.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1058	1058	1058	1058	1058	
5°	1055	1055	1065	1052	1050	100
15°	1018	1020	1025	1012	1003	287
25°	938	947	948	931	915	432
35°	825	836	835	817	800	516
45°	687	696	700	680	661	530
55°	531	541	546	526	508	474
65°	362	372	382	359	342	359
75°	191	198	203	186	175	203
85°	42	48	48	42	35	50
90°	0	0	0	0	0	1
95°	3	4	12	28	27	4
105°	18	45	88	60	65	20
115°	160	425	219	104	118	220
125°	637	561	351	172	148	560
135°	705	638	461	286	227	543
145°	735	688	550	407	347	460
155°	743	710	614	510	462	343
165°	726	710	658	590	562	206
175°	684	685	673	649	632	66
180°	668	668	668	668	668	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1054.4	1057.6	1057.7	1057.9	1066.0	1057.1	1056.9	1056.8	1051.9
5°	1055.4	1055.4	1055.4	1053.6	1064.7	1052.6	1052.3	1050.2	1050.2
7.5°	1049.4	1047.6	1048.8	1046.5	1056.7	1043.5	1044.2	1042.0	1041.5
10°	1042.0	1041.0	1043.0	1039.1	1049.2	1036.1	1036.8	1033.6	1031.6
12.5°	1033.7	1032.7	1035.5	1030.0	1040.9	1027.8	1027.7	1023.7	1023.3
15°	1018.2	1018.2	1020.2	1016.3	1025.4	1012.3	1012.0	1007.7	1002.6
17.5°	999.7	997.5	1002.4	996.0	1005.3	990.6	991.7	985.5	979.9
20°	984.0	981.0	989.2	981.1	991.3	974.1	976.8	967.4	963.3
22.5°	965.8	963.6	972.6	965.4	974.7	958.3	959.4	947.5	944.3
25°	937.5	936.4	946.8	938.7	947.8	930.6	931.2	918.7	914.7
27.5°	906.2	905.4	916.8	908.7	916.6	900.6	901.0	887.3	882.2
30°	884.7	884.7	896.1	888.0	895.0	879.9	879.5	864.9	859.9
32.5°	861.5	860.7	872.1	865.6	871.9	855.9	854.7	840.9	835.8
35°	824.7	824.7	836.1	828.9	835.0	820.9	817.4	803.9	799.8
37.5°	785.8	784.8	796.1	791.7	797.1	782.2	777.5	763.0	762.0
40°	758.4	757.4	768.8	766.8	769.8	755.7	750.2	735.6	730.5
42.5°	730.3	730.9	740.7	738.7	742.5	728.4	722.9	707.5	704.9
45°	687.1	686.0	696.4	695.4	700.5	686.3	679.8	663.2	661.2
47.5°	641.9	642.3	651.5	652.6	655.6	642.6	634.9	618.5	616.5
50°	610.5	612.5	620.8	621.9	625.0	612.8	604.3	588.7	586.7
52.5°	579.9	581.1	589.4	592.9	593.5	583.0	572.8	558.1	556.1
55°	530.8	533.8	541.2	545.3	546.3	537.2	525.6	511.1	508.0
57.5°	481.1	483.2	493.1	497.9	498.1	488.6	477.0	463.4	458.6
60°	448.0	450.1	458.4	465.6	466.7	455.5	443.9	430.4	426.3
62.5°	414.1	416.1	424.4	431.7	432.7	422.4	410.0	396.4	393.2
65°	362.2	364.2	372.5	380.8	381.8	371.7	359.0	345.5	342.5
67.5°	311.2	313.3	321.4	328.3	330.5	319.6	307.9	295.4	291.4
70°	277.3	279.3	286.6	291.9	294.9	284.8	273.2	260.7	256.6
72.5°	241.7	242.9	250.2	256.2	256.8	248.3	237.6	227.6	224.3
75°	191.4	193.4	197.6	203.8	202.8	194.7	186.2	178.9	174.9
77.5°	143.2	145.4	149.4	153.6	154.2	146.7	139.5	132.2	129.3
80°	111.7	114.8	118.0	122.1	121.1	116.0	109.7	102.4	100.4
82.5°	82.8	85.0	89.0	92.2	89.6	86.2	81.5	74.2	72.2
85°	42.4	43.4	47.6	50.6	47.6	46.6	42.4	37.2	35.2
87.5°	9.1	10.7	14.1	18.1	14.9	15.7	12.4	8.3	7.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.8	2.7	9.8	10.9	9.5	9.5
95°	2.8	2.8	4.0	12.5	11.9	20.2	28.3	26.6	26.6
97.5°	5.8	6.3	9.1	36.9	27.8	27.0	38.3	42.6	43.4
100°	8.5	9.1	13.6	60.2	41.4	35.3	41.9	49.9	51.6
102.5°	11.7	12.7	21.8	94.7	58.2	41.4	47.8	54.9	57.0
105°	17.6	19.2	44.8	158.8	87.9	54.1	60.1	63.0	64.6
107.5°	26.1	32.8	120.6	223.1	124.7	71.4	77.8	77.3	78.8
110°	35.1	49.0	208.6	258.3	151.9	84.8	85.0	89.5	87.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.3	97.4	311.1	292.2	179.1	101.0	91.8	101.8	102.4
115°	159.8	274.6	425.1	339.6	219.4	129.6	104.3	114.0	117.9
117.5°	396.3	477.7	483.5	381.8	259.5	161.5	118.6	122.9	128.0
120°	537.4	554.0	510.7	407.6	286.3	184.3	130.4	128.8	134.3
122.5°	592.7	586.7	532.9	431.7	312.6	208.4	144.9	136.0	139.8
125°	637.1	621.6	560.6	465.0	350.9	244.5	172.3	147.9	147.9
127.5°	663.6	645.6	586.0	494.6	385.4	280.9	205.3	167.3	162.1
130°	679.1	659.7	601.4	515.1	408.1	304.5	228.4	184.0	175.7
132.5°	690.9	673.2	615.9	531.1	430.3	327.6	251.6	204.8	191.1
135°	705.1	690.2	638.3	555.6	461.4	362.2	286.3	240.6	226.7
137.5°	714.3	702.7	658.3	575.8	490.2	396.5	321.3	275.4	262.9
140°	719.3	709.9	668.3	587.7	507.9	418.7	345.8	299.0	287.4
142.5°	724.3	716.7	675.6	600.9	525.1	440.8	369.8	323.0	310.5
145°	734.6	725.7	687.6	616.9	549.8	471.7	407.0	358.0	346.9
147.5°	741.9	731.2	697.4	634.0	573.2	499.7	441.1	393.8	382.8
150°	743.7	732.6	702.9	643.2	587.2	516.9	462.0	416.9	406.4
152.5°	742.3	733.9	707.0	651.0	599.0	533.5	481.0	439.2	429.5
155°	743.1	735.4	710.2	661.5	613.9	556.8	509.6	472.5	462.5
157.5°	739.7	734.6	712.5	669.6	627.6	577.6	535.8	504.6	494.5
160°	739.7	732.0	712.5	674.3	637.1	591.1	552.1	524.1	515.8
162.5°	734.7	727.9	712.1	677.6	646.2	603.7	567.5	541.4	535.3
165°	725.5	720.0	709.7	681.9	657.5	620.9	589.5	566.2	562.3
167.5°	718.4	710.8	705.1	681.8	665.2	633.3	608.1	588.8	586.6
170°	710.2	705.3	700.6	680.5	668.9	642.3	621.2	601.9	599.7
172.5°	699.8	697.0	694.7	679.7	671.1	649.8	632.6	615.0	611.0
175°	683.6	685.8	685.3	677.8	673.4	659.5	649.0	636.4	631.5
177.5°	673.6	672.7	675.0	673.6	673.2	664.7	661.8	653.3	655.9
180°	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7

(END OF REPORT)