

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: P522428

Luminaire Tested: **SQW-F-0U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522428
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-0U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

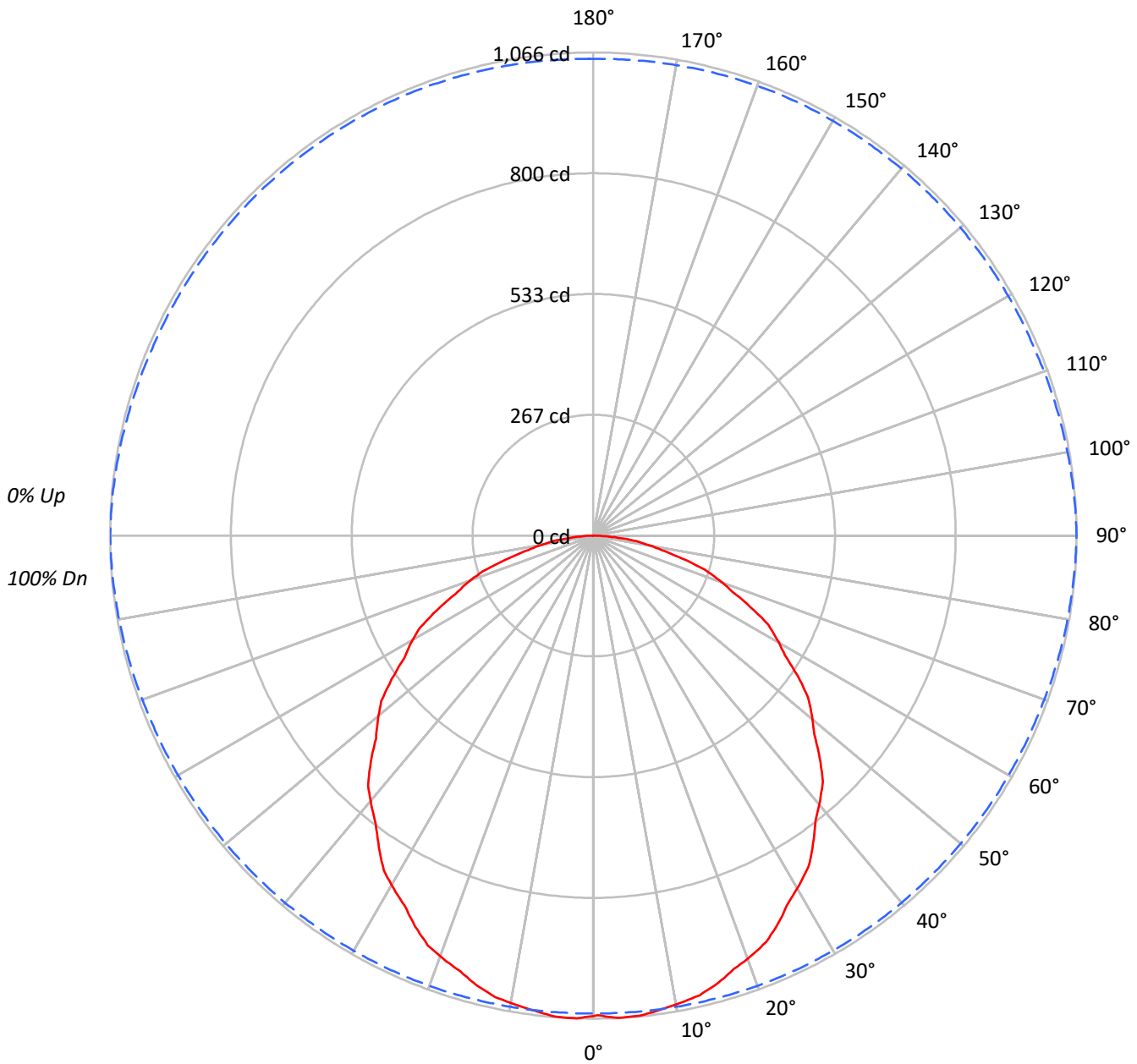
Lumens per Lamp: N/A
Luminaire Lumens: 2955.7 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

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



— 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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	3.4
10°-20°	286.1	9.7
20°-30°	430.4	14.6
30°-40°	514.1	17.4
40°-50°	528.5	17.9
50°-60°	475.6	16.1
60°-70°	361.9	12.2
70°-80°	205.1	6.9
80°-90°	53.9	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	816.6	27.6
0°-40°	1330.6	45.0
0°-60°	2334.7	79.0
0°-90°	2955.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.7	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	52
90°	0	0	0	0	0	



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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

(END OF REPORT)