

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: P522350

Luminaire Tested: **SQW-F-050U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522350
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

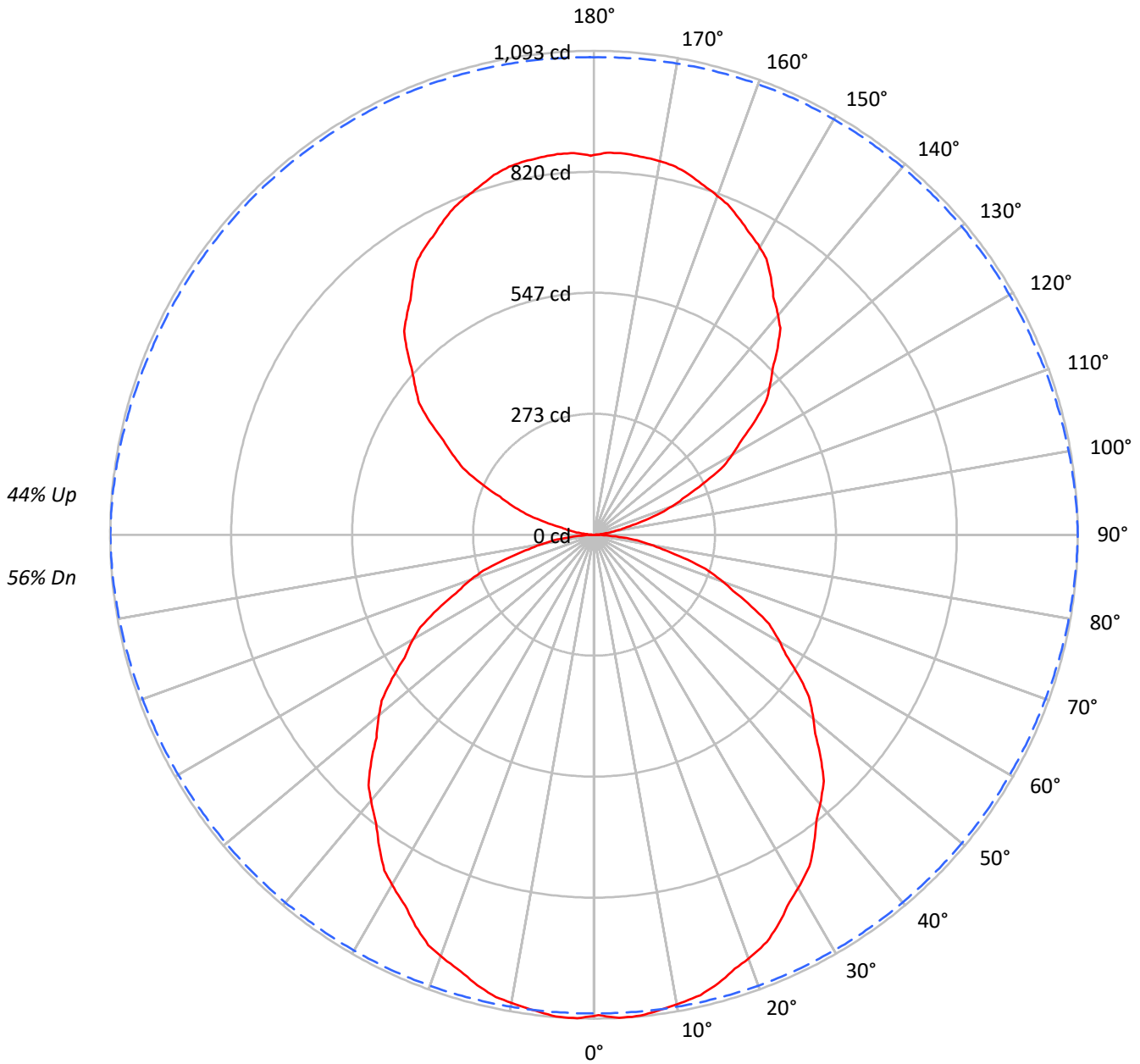
Lumens per Lamp: N/A
Luminaire Lumens: 5420.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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				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	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°	17526	17526	17526
5°	17541	17695	17455
10°	17518	17639	17344
15°	17453	17576	17187
20°	17338	17466	16974
25°	17126	17314	16710
30°	16913	17111	16438
35°	16669	16878	16166
40°	16394	16638	15789
45°	16089	16401	15481
50°	15724	16098	15111
55°	15322	15769	14666
60°	14835	15452	14118
65°	14189	14957	13417
70°	13426	14275	12420
75°	12246	12976	11185
80°	10656	11539	9568
85°	8058	9040	6688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	1.9
10°-20°	293.4	5.4
20°-30°	441.3	8.1
30°-40°	527.1	9.7
40°-50°	541.9	10.0
50°-60°	487.7	9.0
60°-70°	371.2	6.8
70°-80°	210.3	3.9
80°-90°	55.3	1.0
90°-100°	22.5	0.4
100°-110°	97.5	1.8
110°-120°	278.0	5.1
120°-130°	422.7	7.8
130°-140°	457.2	8.4
140°-150°	436.8	8.1
150°-160°	359.3	6.6
160°-170°	234.8	4.3
170°-180°	81.2	1.5
0°-30°	837.4	15.4
0°-40°	1364.5	25.2
0°-60°	2394.1	44.2
0°-90°	3030.9	55.9
90°-120°	398.0	7.3
90°-150°	1714.7	31.6
90°-180°	2390.0	44.1
0°-180°	5420.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1086	1086	1086	1086	1086	
5°	1082	1082	1092	1079	1077	103
15°	1044	1046	1052	1038	1028	294
25°	961	971	972	955	938	443
35°	846	857	856	838	820	529
45°	705	714	718	697	678	543
55°	544	555	560	539	521	486
65°	371	382	392	368	351	368
75°	196	203	208	191	179	208
85°	44	49	49	44	36	52
90°	0	0	0	0	0	1
95°	4	5	15	36	34	5
105°	22	57	113	77	83	26
115°	205	545	281	134	151	282
125°	817	719	450	221	190	718
135°	904	819	592	367	291	697
145°	942	882	705	522	445	590
155°	953	911	787	654	593	440
165°	931	910	843	756	721	265
175°	877	879	864	832	810	85
180°	856	856	856	856	856	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5	1085.5
2.5°	1081.2	1084.6	1084.6	1084.8	1093.1	1084.0	1083.8	1083.7	1078.7
5°	1082.3	1082.3	1082.3	1080.4	1091.8	1079.4	1079.1	1077.0	1077.0
7.5°	1076.1	1074.3	1075.5	1073.2	1083.6	1070.1	1070.8	1068.5	1068.1
10°	1068.5	1067.5	1069.6	1065.5	1075.9	1062.4	1063.2	1060.0	1057.9
12.5°	1060.0	1059.0	1061.9	1056.2	1067.4	1053.9	1053.9	1049.8	1049.4
15°	1044.1	1044.1	1046.2	1042.2	1051.5	1038.0	1037.7	1033.4	1028.2
17.5°	1025.2	1022.9	1028.0	1021.4	1030.9	1015.8	1016.9	1010.6	1004.8
20°	1009.1	1006.0	1014.4	1006.1	1016.5	998.9	1001.6	992.0	987.9
22.5°	990.4	988.1	997.4	990.0	999.5	982.7	983.8	971.7	968.3
25°	961.3	960.3	970.9	962.6	971.9	954.3	955.0	942.1	938.0
27.5°	929.3	928.5	940.1	931.8	939.9	923.5	924.0	909.9	904.7
30°	907.2	907.2	918.9	910.6	917.8	902.3	901.9	886.9	881.7
32.5°	883.4	882.6	894.3	887.6	894.1	877.7	876.4	862.3	857.1
35°	845.7	845.7	857.3	850.1	856.3	841.8	838.2	824.4	820.2
37.5°	805.8	804.7	816.4	811.8	817.4	802.1	797.3	782.4	781.4
40°	777.8	776.7	788.4	786.3	789.4	774.9	769.3	754.3	749.1
42.5°	748.9	749.5	759.5	757.5	761.4	746.9	741.3	725.5	722.8
45°	704.6	703.5	714.1	713.2	718.3	703.8	697.1	680.1	678.0
47.5°	658.3	658.7	668.0	669.2	672.3	659.0	651.1	634.3	632.2
50°	626.0	628.1	636.6	637.8	640.9	628.4	619.7	603.7	601.6
52.5°	594.6	595.9	604.4	608.0	608.6	597.8	587.4	572.3	570.2
55°	544.3	547.4	554.9	559.2	560.2	550.9	539.0	524.1	521.0
57.5°	493.4	495.5	505.7	510.6	510.8	501.0	489.2	475.2	470.3
60°	459.4	461.5	470.1	477.5	478.5	467.1	455.2	441.3	437.2
62.5°	424.6	426.7	435.3	442.7	443.7	433.2	420.4	406.5	403.2
65°	371.4	373.4	382.0	390.5	391.5	381.2	368.2	354.3	351.2
67.5°	319.2	321.2	329.6	336.6	338.9	327.7	315.8	302.9	298.8
70°	284.4	286.4	293.9	299.3	302.4	292.0	280.1	267.3	263.1
72.5°	247.9	249.1	256.6	262.7	263.4	254.6	243.6	233.4	230.0
75°	196.3	198.4	202.7	209.0	208.0	199.7	191.0	183.5	179.3
77.5°	146.9	149.1	153.2	157.5	158.1	150.4	143.0	135.5	132.6
80°	114.6	117.7	121.0	125.2	124.1	119.0	112.5	105.0	102.9
82.5°	84.9	87.2	91.3	94.6	91.9	88.4	83.6	76.1	74.1
85°	43.5	44.5	48.8	51.9	48.8	47.8	43.5	38.2	36.1
87.5°	9.3	11.0	14.4	18.6	15.3	16.1	12.7	8.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.2	1.2	1.2	2.4	3.5	12.6	14.0	12.2	12.2
95°	3.6	3.6	5.1	16.0	15.3	25.9	36.4	34.2	34.2
97.5°	7.4	8.1	11.6	47.3	35.6	34.6	49.1	54.7	55.7
100°	10.9	11.6	17.4	77.2	53.1	45.3	53.8	64.0	66.2
102.5°	15.0	16.3	27.9	121.5	74.6	53.1	61.4	70.4	73.1
105°	22.5	24.7	57.4	203.7	112.7	69.3	77.1	80.8	82.9
107.5°	33.4	42.1	154.7	286.2	160.0	91.6	99.8	99.2	101.1
110°	45.1	62.9	267.6	331.3	194.9	108.8	109.1	114.8	112.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	74.7	124.9	399.0	374.8	229.8	129.5	117.8	130.6	131.3
115°	205.0	352.2	545.3	435.6	281.4	166.2	133.8	146.3	151.2
117.5°	508.4	612.7	620.2	489.7	332.8	207.2	152.1	157.6	164.2
120°	689.3	710.6	655.1	522.9	367.2	236.4	167.2	165.2	172.3
122.5°	760.2	752.5	683.6	553.7	400.9	267.3	185.8	174.5	179.3
125°	817.2	797.3	719.1	596.5	450.1	313.6	221.0	189.8	189.8
127.5°	851.2	828.1	751.6	634.5	494.4	360.3	263.3	214.6	207.9
130°	871.0	846.1	771.4	660.7	523.5	390.5	293.0	236.1	225.4
132.5°	886.1	863.5	790.0	681.2	552.0	420.2	322.7	262.7	245.2
135°	904.5	885.3	818.7	712.7	591.8	464.6	367.2	308.6	290.8
137.5°	916.2	901.3	844.4	738.5	628.8	508.6	412.1	353.3	337.2
140°	922.6	910.6	857.2	753.8	651.4	537.0	443.5	383.6	368.6
142.5°	929.0	919.2	866.5	770.8	673.6	565.4	474.3	414.4	398.3
145°	942.3	930.9	881.9	791.3	705.3	605.0	522.0	459.2	445.0
147.5°	951.6	937.9	894.6	813.3	735.2	640.9	565.8	505.1	491.1
150°	953.9	939.7	901.6	825.0	753.2	663.0	592.6	534.8	521.3
152.5°	952.2	941.4	906.8	835.0	768.4	684.3	617.0	563.3	551.0
155°	953.2	943.2	911.0	848.5	787.4	714.2	653.6	606.1	593.3
157.5°	948.8	942.3	913.9	858.9	805.0	740.9	687.2	647.2	634.3
160°	948.8	938.9	913.9	864.9	817.2	758.2	708.2	672.3	661.6
162.5°	942.4	933.6	913.3	869.1	828.9	774.4	727.9	694.5	686.6
165°	930.6	923.5	910.3	874.7	843.4	796.5	756.1	726.2	721.2
167.5°	921.5	911.7	904.5	874.5	853.3	812.3	780.0	755.2	752.4
170°	911.0	904.6	898.7	872.9	857.9	823.8	796.9	772.1	769.2
172.5°	897.6	894.1	891.1	871.8	860.8	833.5	811.4	788.9	783.8
175°	876.8	879.7	879.0	869.4	863.8	846.0	832.5	816.3	809.9
177.5°	864.0	862.9	865.8	864.0	863.5	852.7	848.9	837.9	841.4
180°	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5	856.5

(END OF REPORT)