

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: P522314

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522314
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-100D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5652.3 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

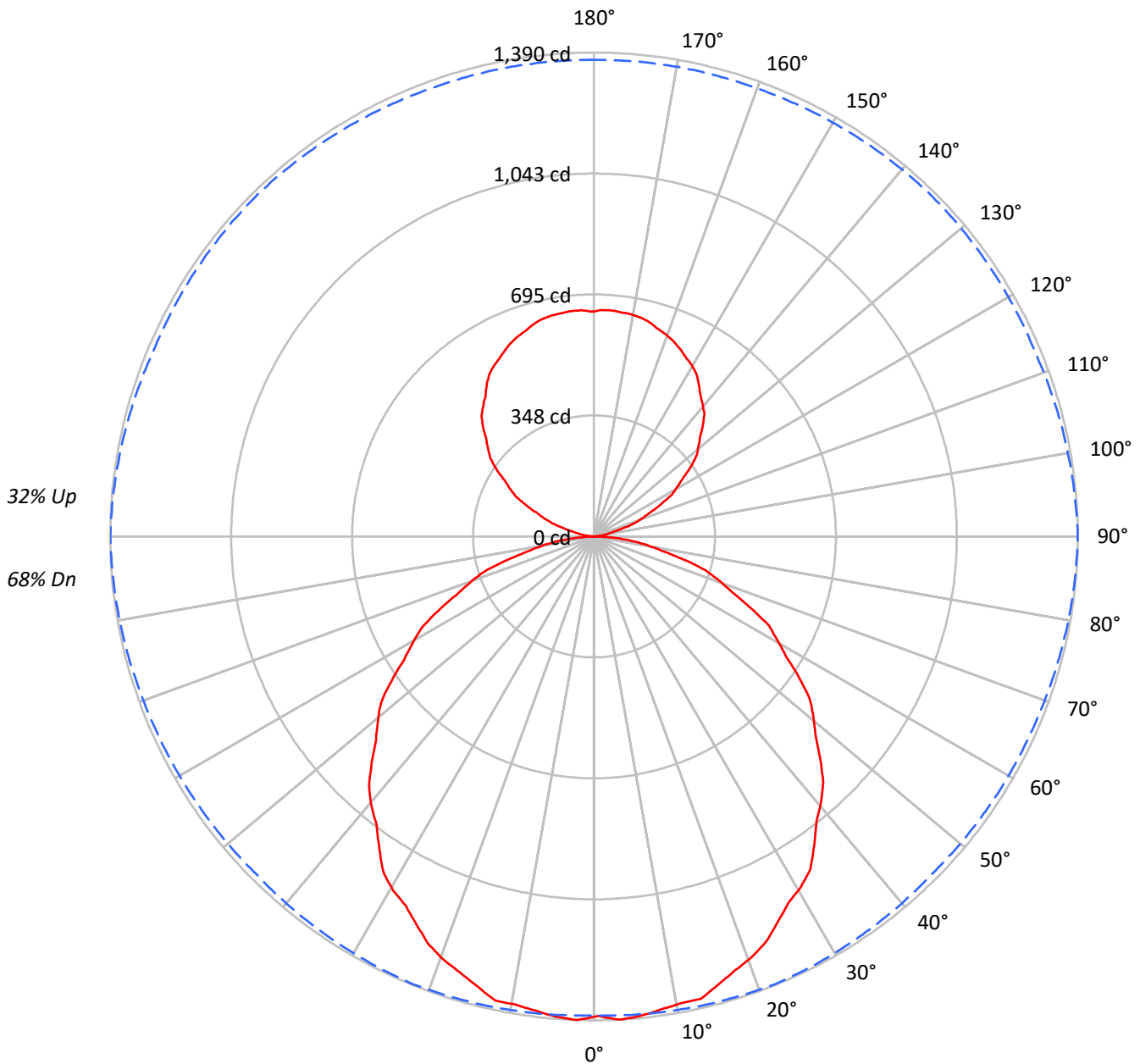
Input Watts (W): 58.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	92	85	78	73	87	80	74	69	71	67	63	64	60	57	56	54	51	47
3	84	74	67	60	79	70	63	58	63	57	53	56	52	48	50	46	43	40
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	45	40	36	40	36	32	29
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	28	26
7	60	47	39	33	57	45	38	32	41	34	30	37	31	27	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	39	32	26	49	38	30	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	21	29	24	20	26	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22249	22249	22249
5°	22512	22431	22091
10°	22281	22363	22051
15°	22365	22332	21914
20°	21838	22182	21409
25°	21806	21859	21057
30°	21533	21813	20844
35°	21031	21465	20479
40°	20824	21182	20065
45°	20619	20801	19705
50°	19894	20522	19140
55°	19705	20127	18466
60°	18826	19536	17793
65°	17994	18911	16886
70°	17183	18033	15767
75°	15970	16594	14223
80°	13668	14505	11901
85°	10189	11300	8151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	2.3
10°-20°	373.0	6.6
20°-30°	559.9	9.9
30°-40°	669.3	11.8
40°-50°	688.8	12.2
50°-60°	620.1	11.0
60°-70°	470.9	8.3
70°-80°	268.7	4.8
80°-90°	70.3	1.2
90°-100°	17.0	0.3
100°-110°	73.4	1.3
110°-120°	209.5	3.7
120°-130°	318.5	5.6
130°-140°	344.5	6.1
140°-150°	329.1	5.8
150°-160°	270.7	4.8
160°-170°	176.9	3.1
170°-180°	61.2	1.1
0°-30°	1063.4	18.8
0°-40°	1732.7	30.7
0°-60°	3041.6	53.8
0°-90°	3851.6	68.1
90°-120°	299.9	5.3
90°-150°	1291.9	22.9
90°-180°	1801.0	31.9
0°-180°	5652.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1378	1378	1378	1378	1378	
5°	1389	1378	1384	1360	1363	131
15°	1338	1330	1336	1317	1311	374
25°	1224	1231	1227	1214	1182	562
35°	1067	1093	1089	1065	1039	672
45°	903	910	911	891	863	690
55°	700	712	715	686	656	620
65°	471	484	495	461	442	468
75°	256	263	266	243	228	268
85°	55	63	61	55	44	66
90°	0	0	0	0	0	2
95°	3	4	12	27	26	3
105°	17	43	85	58	62	20
115°	154	411	212	101	114	212
125°	616	542	339	166	143	541
135°	682	617	446	277	219	525
145°	710	664	531	393	335	445
155°	718	686	593	492	447	332
165°	701	686	636	570	543	199
175°	661	662	651	627	610	64
180°	645	645	645	645	645	

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CATALOG NUMBER: SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1376.4	1387.4	1372.4	1376.7	1390.0	1373.6	1378.0	1370.0	1369.2
5°	1389.0	1372.4	1378.0	1370.3	1384.0	1371.3	1360.0	1374.7	1363.0
7.5°	1365.4	1354.6	1376.6	1365.6	1372.8	1364.2	1365.4	1357.2	1357.0
10°	1359.0	1352.2	1359.0	1359.1	1364.0	1352.3	1351.0	1342.1	1345.0
12.5°	1340.6	1350.2	1339.8	1352.8	1363.2	1342.9	1335.0	1338.1	1343.4
15°	1338.0	1335.1	1330.0	1326.2	1336.0	1312.5	1317.0	1308.1	1311.0
17.5°	1297.4	1302.9	1305.4	1302.2	1311.0	1289.7	1284.6	1284.6	1286.0
20°	1271.0	1282.7	1291.0	1282.2	1291.0	1274.4	1271.0	1258.7	1246.0
22.5°	1256.6	1254.3	1271.0	1253.5	1265.4	1244.9	1254.2	1232.8	1239.6
25°	1224.0	1214.2	1231.0	1221.1	1227.0	1210.4	1214.0	1187.9	1182.0
27.5°	1180.6	1180.6	1190.8	1186.7	1190.8	1177.5	1173.8	1149.9	1147.6
30°	1155.0	1147.2	1166.0	1157.3	1170.0	1138.7	1141.0	1121.9	1118.0
32.5°	1120.6	1123.7	1136.4	1125.3	1140.4	1110.7	1116.2	1086.9	1091.6
35°	1067.0	1072.9	1093.0	1078.2	1089.0	1071.4	1065.0	1045.8	1039.0
37.5°	1032.8	1023.8	1033.6	1034.5	1037.8	1018.4	1011.4	988.2	990.4
40°	988.0	986.0	1000.0	1004.0	1005.0	986.4	981.0	953.0	952.0
42.5°	947.2	949.2	960.8	965.6	965.8	947.2	946.6	916.3	920.0
45°	903.0	900.1	910.0	909.0	911.0	891.4	891.0	862.0	863.0
47.5°	833.6	839.9	846.6	848.6	856.2	839.6	827.8	804.7	801.2
50°	792.0	803.7	805.0	814.1	817.0	796.5	787.0	767.9	762.0
52.5°	755.2	761.5	766.6	772.5	777.0	758.0	743.8	725.6	724.4
55°	700.0	696.1	712.0	710.1	715.0	700.3	686.0	665.8	656.0
57.5°	628.6	636.2	639.8	647.3	650.6	634.6	622.0	600.6	599.8
60°	583.0	593.8	595.0	607.9	605.0	591.3	578.0	558.8	551.0
62.5°	541.4	544.3	552.6	561.6	562.6	547.3	537.2	516.5	511.0
65°	471.0	476.9	484.0	496.0	495.0	484.2	461.0	449.8	442.0
67.5°	407.2	409.2	418.8	424.5	428.4	413.5	400.2	384.5	381.2
70°	364.0	362.0	374.0	378.1	382.0	370.3	357.0	342.8	334.0
72.5°	316.8	318.8	327.6	334.1	336.4	324.7	310.6	299.7	294.0
75°	256.0	254.0	263.0	267.0	266.0	257.2	243.0	235.8	228.0
77.5°	188.6	192.5	197.8	201.4	200.0	194.1	183.0	172.1	168.8
80°	147.0	150.9	157.0	158.9	156.0	150.1	143.0	132.9	128.0
82.5°	108.6	110.9	117.0	120.5	116.0	112.5	106.2	98.5	92.8
85°	55.0	57.0	63.0	64.9	61.0	61.0	55.0	47.9	44.0
87.5°	12.8	13.6	18.4	23.9	19.2	20.8	16.0	11.9	8.8
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	2.6	9.5	10.5	9.2	9.2
95°	2.7	2.7	3.8	12.0	11.5	19.5	27.4	25.7	25.7
97.5°	5.6	6.1	8.8	35.6	26.8	26.1	37.0	41.2	42.0
100°	8.2	8.8	13.1	58.2	40.0	34.1	40.5	48.2	49.9
102.5°	11.3	12.2	21.0	91.6	56.2	40.0	46.2	53.1	55.1
105°	17.0	18.6	43.3	153.5	84.9	52.2	58.1	60.8	62.5
107.5°	25.2	31.7	116.6	215.6	120.5	69.0	75.2	74.8	76.1
110°	34.0	47.4	201.6	249.7	146.8	82.0	82.2	86.5	84.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	56.3	94.1	300.6	282.4	173.1	97.6	88.7	98.4	98.9
115°	154.5	265.4	410.9	328.2	212.0	125.2	100.8	110.2	113.9
117.5°	383.0	461.7	467.3	369.0	250.8	156.1	114.6	118.8	123.7
120°	519.3	535.4	493.6	394.0	276.6	178.1	126.0	124.5	129.8
122.5°	572.8	567.0	515.1	417.2	302.1	201.4	140.0	131.4	135.1
125°	615.7	600.7	541.8	449.4	339.1	236.3	166.5	143.0	143.0
127.5°	641.4	623.9	566.3	478.0	372.5	271.5	198.4	161.7	156.7
130°	656.3	637.5	581.2	497.8	394.4	294.3	220.8	177.9	169.8
132.5°	667.7	650.6	595.3	513.3	415.9	316.6	243.1	197.9	184.7
135°	681.5	667.0	616.8	537.0	445.9	350.0	276.6	232.5	219.1
137.5°	690.4	679.1	636.2	556.5	473.7	383.2	310.5	266.2	254.1
140°	695.2	686.1	645.9	568.0	490.8	404.6	334.2	289.0	277.7
142.5°	700.0	692.6	652.9	580.8	507.5	426.0	357.4	312.2	300.1
145°	710.0	701.4	664.5	596.2	531.4	455.9	393.3	346.0	335.3
147.5°	717.0	706.7	674.0	612.8	553.9	482.9	426.3	380.6	370.0
150°	718.7	708.0	679.3	621.6	567.5	499.5	446.5	403.0	392.8
152.5°	717.4	709.3	683.2	629.2	578.9	515.6	464.9	424.5	415.1
155°	718.2	710.7	686.4	639.3	593.3	538.1	492.5	456.7	447.0
157.5°	714.9	710.0	688.6	647.1	606.5	558.2	517.8	487.7	477.9
160°	714.9	707.4	688.6	651.6	615.7	571.3	533.6	506.5	498.5
162.5°	710.1	703.4	688.2	654.8	624.5	583.5	548.5	523.2	517.4
165°	701.2	695.8	685.9	659.0	635.5	600.1	569.7	547.2	543.4
167.5°	694.3	686.9	681.5	658.9	642.9	612.1	587.7	569.0	566.9
170°	686.4	681.6	677.1	657.7	646.4	620.7	600.4	581.7	579.6
172.5°	676.3	673.7	671.4	656.9	648.6	628.0	611.4	594.4	590.5
175°	660.7	662.8	662.3	655.1	650.8	637.4	627.2	615.1	610.3
177.5°	651.0	650.2	652.3	651.0	650.6	642.4	639.6	631.4	633.9
180°	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3	645.3

(END OF REPORT)