

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: P522317

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522317
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

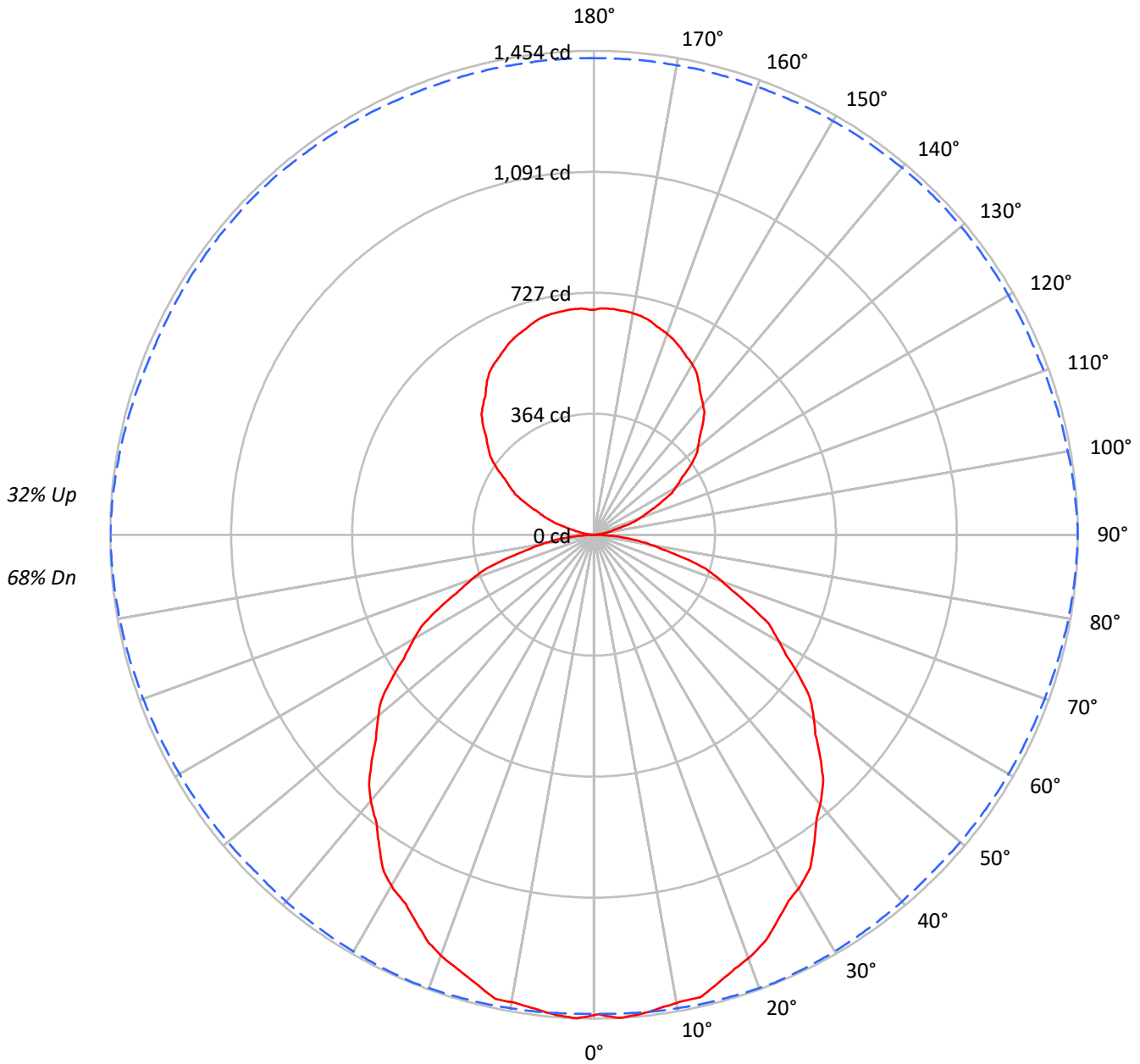
Lumens per Lamp: N/A
Luminaire Lumens: 5913.2 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.6
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°	23276	23276	23276
5°	23551	23467	23110
10°	23309	23396	23069
15°	23398	23363	22925
20°	22847	23206	22397
25°	22812	22869	22030
30°	22527	22820	21806
35°	22003	22456	21425
40°	21785	22160	20993
45°	21571	21763	20614
50°	20813	21469	20024
55°	20614	21056	19319
60°	19695	20437	18613
65°	18823	19786	17666
70°	17977	18864	16494
75°	16706	17361	14878
80°	14300	15174	12450
85°	10652	11819	8522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	2.3
10°-20°	390.2	6.6
20°-30°	585.8	9.9
30°-40°	700.3	11.8
40°-50°	720.6	12.2
50°-60°	648.7	11.0
60°-70°	492.7	8.3
70°-80°	281.1	4.8
80°-90°	73.6	1.2
90°-100°	17.7	0.3
100°-110°	76.8	1.3
110°-120°	219.1	3.7
120°-130°	333.2	5.6
130°-140°	360.4	6.1
140°-150°	344.3	5.8
150°-160°	283.2	4.8
160°-170°	185.0	3.1
170°-180°	64.0	1.1
0°-30°	1112.5	18.8
0°-40°	1812.7	30.7
0°-60°	3182.0	53.8
0°-90°	4029.4	68.1
90°-120°	313.7	5.3
90°-150°	1351.6	22.9
90°-180°	1884.0	31.9
0°-180°	5913.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1442	1442	1442	1442	1442	
5°	1453	1442	1448	1423	1426	137
15°	1400	1391	1398	1378	1372	391
25°	1280	1288	1284	1270	1237	588
35°	1116	1144	1139	1114	1087	703
45°	945	952	953	932	903	722
55°	732	745	748	718	686	648
65°	493	506	518	482	462	490
75°	268	275	278	254	238	280
85°	58	66	64	58	46	69
90°	0	0	0	0	0	2
95°	3	4	12	29	27	4
105°	18	45	89	61	65	21
115°	162	430	222	106	119	222
125°	644	567	355	174	150	566
135°	713	645	466	289	229	550
145°	743	695	556	412	351	465
155°	751	718	621	515	468	347
165°	734	718	665	596	568	209
175°	691	693	681	656	638	67
180°	675	675	675	675	675	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6
2.5°	1439.9	1451.4	1435.8	1440.3	1454.2	1437.0	1441.6	1433.2	1432.4
5°	1453.1	1435.7	1441.6	1433.6	1447.9	1434.6	1422.8	1438.2	1425.9
7.5°	1428.4	1417.2	1440.2	1428.6	1436.2	1427.2	1428.4	1419.9	1419.7
10°	1421.7	1414.6	1421.7	1421.9	1427.0	1414.7	1413.4	1404.0	1407.1
12.5°	1402.5	1412.5	1401.7	1415.3	1426.1	1404.9	1396.6	1399.9	1405.4
15°	1399.8	1396.7	1391.4	1387.5	1397.7	1373.1	1377.8	1368.5	1371.5
17.5°	1357.3	1363.0	1365.7	1362.3	1371.5	1349.2	1343.9	1343.9	1345.4
20°	1329.7	1342.0	1350.6	1341.4	1350.6	1333.2	1329.7	1316.8	1303.5
22.5°	1314.6	1312.2	1329.7	1311.3	1323.8	1302.3	1312.1	1289.7	1296.8
25°	1280.5	1270.3	1287.8	1277.5	1283.7	1266.3	1270.1	1242.7	1236.6
27.5°	1235.1	1235.1	1245.8	1241.5	1245.8	1231.9	1228.0	1203.0	1200.6
30°	1208.3	1200.1	1219.8	1210.7	1224.0	1191.3	1193.7	1173.7	1169.6
32.5°	1172.3	1175.6	1188.9	1177.3	1193.1	1162.0	1167.7	1137.1	1142.0
35°	1116.3	1122.4	1143.5	1128.0	1139.3	1120.9	1114.2	1094.1	1087.0
37.5°	1080.5	1071.1	1081.3	1082.2	1085.7	1065.5	1058.1	1033.9	1036.1
40°	1033.6	1031.6	1046.2	1050.4	1051.4	1032.0	1026.3	997.0	996.0
42.5°	990.9	993.0	1005.2	1010.2	1010.4	991.0	990.3	958.6	962.5
45°	944.7	941.6	952.0	951.0	953.1	932.6	932.1	901.8	902.8
47.5°	872.1	878.6	885.7	887.8	895.7	878.3	866.0	841.9	838.2
50°	828.6	840.8	842.2	851.7	854.7	833.2	823.3	803.3	797.2
52.5°	790.1	796.6	802.0	808.2	812.9	793.0	778.1	759.1	757.8
55°	732.3	728.2	744.9	742.9	748.0	732.7	717.7	696.5	686.3
57.5°	657.6	665.6	669.3	677.2	680.6	663.9	650.7	628.3	627.5
60°	609.9	621.2	622.5	636.0	632.9	618.6	604.7	584.6	576.4
62.5°	566.4	569.5	578.1	587.6	588.6	572.6	562.0	540.3	534.6
65°	492.7	498.9	506.3	518.9	517.9	506.6	482.3	470.6	462.4
67.5°	426.0	428.0	438.1	444.1	448.2	432.6	418.7	402.3	398.8
70°	380.8	378.8	391.3	395.5	399.6	387.4	373.5	358.6	349.4
72.5°	331.4	333.5	342.7	349.5	351.9	339.7	324.9	313.5	307.6
75°	267.8	265.8	275.1	279.3	278.3	269.1	254.2	246.7	238.5
77.5°	197.3	201.4	206.9	210.7	209.2	203.1	191.4	180.1	176.6
80°	153.8	157.9	164.2	166.3	163.2	157.1	149.6	139.0	133.9
82.5°	113.6	116.1	122.4	126.1	121.4	117.7	111.1	103.0	97.1
85°	57.5	59.6	65.9	67.9	63.8	63.8	57.5	50.1	46.0
87.5°	13.4	14.2	19.2	25.0	20.1	21.7	16.7	12.5	9.2
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	1.9	2.8	9.9	11.0	9.6	9.6
95°	2.9	2.9	4.0	12.6	12.0	20.4	28.7	26.9	26.9
97.5°	5.8	6.4	9.2	37.3	28.1	27.3	38.7	43.1	43.9
100°	8.6	9.2	13.8	60.9	41.8	35.7	42.4	50.5	52.2
102.5°	11.8	12.8	22.0	95.8	58.8	41.9	48.4	55.5	57.7
105°	17.8	19.4	45.3	160.6	88.8	54.6	60.7	63.7	65.3
107.5°	26.4	33.2	122.0	225.6	126.1	72.2	78.6	78.2	79.7
110°	35.5	49.5	210.9	261.2	153.6	85.8	86.0	90.5	88.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.9	98.5	314.5	295.4	181.1	102.1	92.8	102.9	103.5
115°	161.6	277.6	429.8	343.4	221.8	131.0	105.5	115.3	119.2
117.5°	400.7	483.0	488.9	386.0	262.4	163.3	119.9	124.3	129.4
120°	543.3	560.1	516.4	412.1	289.4	186.3	131.8	130.2	135.8
122.5°	599.2	593.2	538.8	436.5	316.0	210.7	146.5	137.5	141.3
125°	644.2	628.5	566.8	470.2	354.8	247.2	174.2	149.6	149.6
127.5°	671.0	652.7	592.5	500.1	389.7	284.0	207.6	169.2	163.9
130°	686.6	667.0	608.1	520.8	412.6	307.8	231.0	186.1	177.7
132.5°	698.5	680.7	622.7	537.0	435.1	331.2	254.3	207.0	193.3
135°	712.9	697.8	645.3	561.8	466.5	366.2	289.4	243.3	229.2
137.5°	722.2	710.5	665.6	582.1	495.6	400.9	324.8	278.5	265.8
140°	727.3	717.7	675.7	594.2	513.5	423.3	349.6	302.3	290.6
142.5°	732.3	724.6	683.0	607.6	530.9	445.6	373.9	326.6	313.9
145°	742.7	733.8	695.2	623.7	555.9	476.9	411.5	361.9	350.7
147.5°	750.1	739.3	705.1	641.1	579.5	505.2	446.0	398.2	387.1
150°	751.9	740.7	710.7	650.3	593.7	522.6	467.1	421.6	410.9
152.5°	750.5	742.0	714.8	658.2	605.7	539.4	486.3	444.0	434.3
155°	751.3	743.5	718.1	668.9	620.7	563.0	515.2	477.7	467.7
157.5°	747.9	742.7	720.4	677.0	634.5	584.0	541.7	510.2	500.0
160°	747.9	740.1	720.4	681.7	644.2	597.7	558.2	529.9	521.5
162.5°	742.9	735.9	719.9	685.1	653.3	610.4	573.8	547.4	541.2
165°	733.6	728.0	717.5	689.5	664.8	627.8	596.0	572.4	568.5
167.5°	726.4	718.6	712.9	689.3	672.6	640.3	614.8	595.3	593.0
170°	718.1	713.1	708.4	688.0	676.3	649.4	628.1	608.6	606.3
172.5°	707.6	704.8	702.4	687.2	678.6	657.0	639.6	621.8	617.8
175°	691.2	693.4	692.9	685.3	680.8	666.8	656.2	643.5	638.4
177.5°	681.1	680.2	682.5	681.1	680.6	672.1	669.2	660.5	663.2
180°	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1

(END OF REPORT)