

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: P522588

Luminaire Tested: **SQW-F-100U-025D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522588
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-100U-025D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5147.9 lumens
Efficiency: N/A
Efficacy: 105.3 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-Indirect

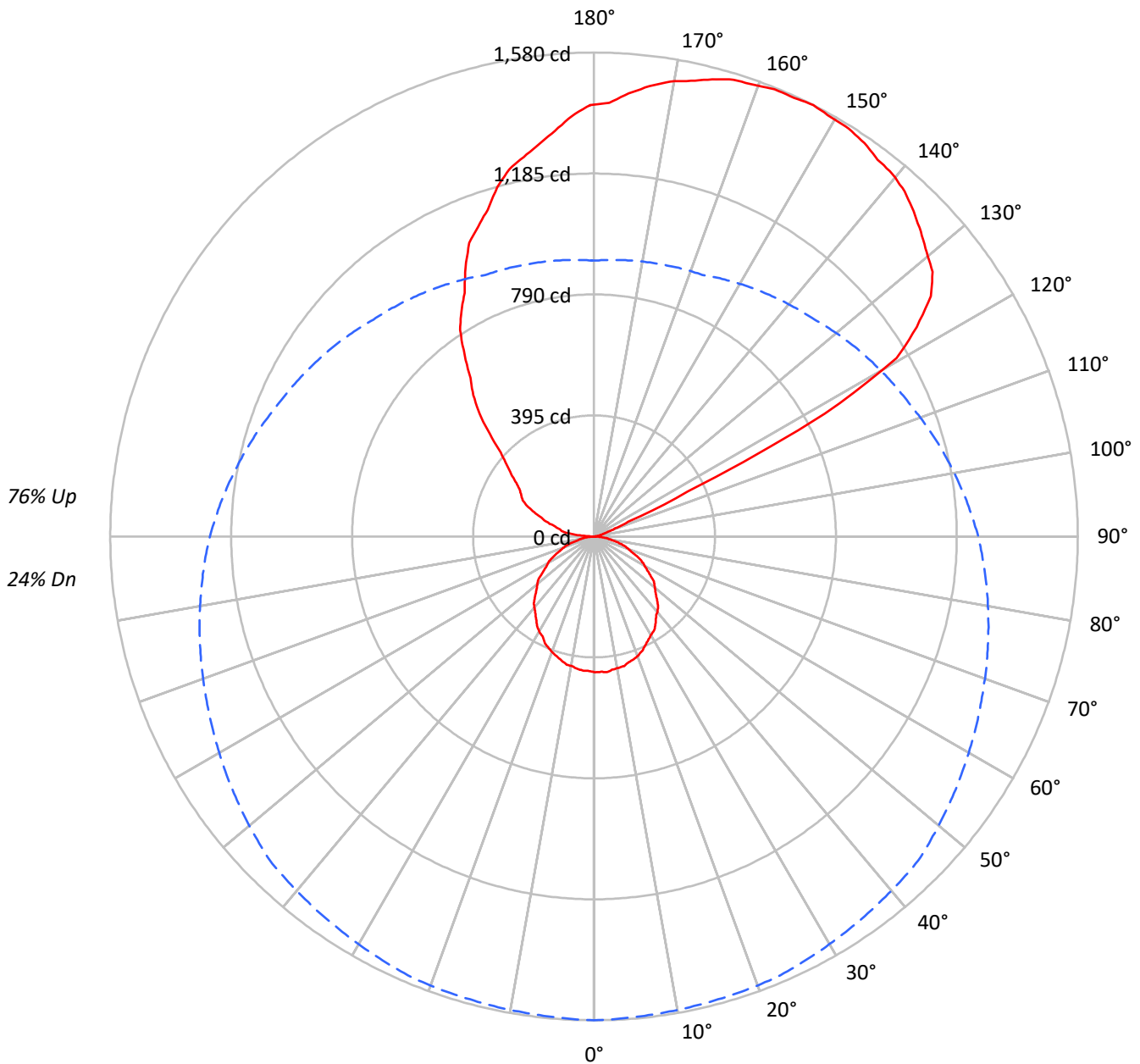
Input Watts (W): 48.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



— Vertical Plane Through 0° Lateral - - - Horizontal Cone Through 152.5° 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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	72	60	58	56	44	42	41	28	28	27	20
2	84	76	71	66	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	46	41	41	36	33	30	27	25	20	18	16	12
5	64	53	45	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	58	47	39	34	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	29	25	21	22	18	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	27	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7161	7161	7161
5°	7204	7237	7125
10°	7158	7174	7047
15°	7117	7168	7004
20°	7115	7132	6930
25°	6975	7062	6852
30°	6896	6969	6714
35°	6828	6865	6556
40°	6742	6742	6433
45°	6542	6677	6272
50°	6458	6581	6111
55°	6269	6435	5855
60°	6051	6242	5641
65°	5849	6036	5360
70°	5514	5792	5051
75°	5078	5265	4529
80°	4472	4649	3831
85°	3279	3631	2538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	0.8
10°-20°	119.8	2.3
20°-30°	180.0	3.5
30°-40°	214.8	4.2
40°-50°	220.7	4.3
50°-60°	198.0	3.8
60°-70°	149.9	2.9
70°-80°	85.6	1.7
80°-90°	22.4	0.4
90°-100°	35.6	0.7
100°-110°	157.8	3.1
110°-120°	453.4	8.8
120°-130°	690.6	13.4
130°-140°	749.7	14.6
140°-150°	716.9	13.9
150°-160°	590.6	11.5
160°-170°	386.5	7.5
170°-180°	133.8	2.6
0°-30°	341.7	6.6
0°-40°	556.5	10.8
0°-60°	975.2	18.9
0°-90°	1233.2	24.0
90°-120°	646.8	12.6
90°-150°	2803.9	54.5
90°-180°	3915.0	76.1
0°-180°	5147.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	444	444	444	444	444	
5°	444	442	446	440	440	42
15°	426	429	429	425	419	121
25°	392	395	396	392	385	181
35°	346	348	348	340	333	217
45°	286	292	292	282	275	222
55°	223	228	229	217	208	199
65°	153	156	158	147	140	151
75°	81	84	84	78	73	86
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	5	8	25	55	54	7
105°	35	96	181	125	133	41
115°	340	894	457	214	240	470
125°	1351	1176	728	361	307	1186
135°	1488	1348	966	598	476	1149
145°	1558	1450	1152	852	727	976
155°	1574	1509	1290	1068	974	728
165°	1541	1502	1383	1243	1183	437
175°	1450	1454	1425	1362	1330	140
180°	1408	1408	1408	1408	1408	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5	443.5
2.5°	442.7	443.5	445.1	442.8	445.9	442.8	443.5	441.9	439.6
5°	444.5	442.6	442.5	442.6	446.5	441.7	439.6	438.6	439.6
7.5°	439.0	439.4	439.2	438.9	443.1	435.6	438.6	435.7	436.1
10°	436.6	434.7	437.6	435.7	437.6	434.7	434.7	431.7	429.8
12.5°	434.3	433.1	434.5	431.1	436.8	429.4	428.4	427.8	428.2
15°	425.8	428.7	428.8	425.9	428.8	422.1	424.9	420.9	419.0
17.5°	421.1	418.3	419.6	417.3	420.5	415.0	414.7	410.6	411.1
20°	414.1	411.2	414.1	410.3	415.1	406.4	409.2	404.2	403.3
22.5°	404.7	404.1	407.8	404.7	405.6	400.8	400.5	394.8	393.9
25°	391.5	392.5	395.4	390.7	396.4	388.7	391.5	382.7	384.6
27.5°	380.1	380.3	383.7	381.3	382.5	376.5	376.8	369.3	368.0
30°	369.9	370.9	375.8	371.9	373.8	367.1	368.9	359.1	360.1
32.5°	362.9	360.7	364.8	361.0	364.4	357.7	357.9	350.5	349.1
35°	346.4	346.4	348.3	348.3	348.3	341.6	340.5	333.6	332.6
37.5°	329.3	328.5	335.2	330.1	332.4	326.9	324.8	318.1	316.9
40°	319.9	316.0	321.8	319.9	319.9	315.1	313.0	307.1	305.2
42.5°	306.5	305.8	310.1	308.9	311.2	303.4	301.2	294.5	293.4
45°	286.5	287.5	292.4	290.5	292.4	287.6	281.6	276.7	274.7
47.5°	269.6	268.1	272.8	272.6	274.5	267.3	264.5	257.1	256.7
50°	257.1	257.1	261.0	260.1	262.0	256.2	251.2	245.3	243.3
52.5°	244.5	243.0	247.7	247.5	247.9	242.9	237.8	232.7	231.6
55°	222.7	223.7	227.6	227.7	228.6	223.8	216.8	210.9	208.0
57.5°	202.3	201.8	205.5	206.6	206.6	201.8	195.7	190.7	189.6
60°	187.4	188.4	191.3	193.3	193.3	188.5	181.5	176.6	174.7
62.5°	173.3	173.5	177.2	178.4	180.0	174.4	168.2	163.2	161.3
65°	153.1	152.1	156.0	158.0	158.0	153.2	147.2	142.2	140.3
67.5°	130.1	131.5	134.6	135.8	136.8	131.0	125.2	122.0	121.1
70°	116.8	115.8	119.7	121.7	122.7	116.9	111.9	107.9	107.0
72.5°	102.6	102.4	105.6	107.5	107.7	102.0	97.7	94.5	92.0
75°	81.4	82.4	84.4	84.4	84.4	80.5	77.5	74.5	72.6
77.5°	60.6	61.6	63.4	65.1	64.2	60.7	57.7	54.7	53.0
80°	48.1	49.0	50.0	51.0	50.0	48.1	45.1	42.2	41.2
82.5°	35.5	35.7	38.3	38.4	37.5	35.6	33.4	30.4	30.2
85°	17.7	18.6	20.6	20.6	19.6	18.7	16.7	14.7	13.7
87.5°	3.9	4.7	6.3	7.8	6.3	6.3	4.7	3.1	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	2.1	3.2	5.3	19.6	22.1	19.9	18.9
95°	5.3	5.3	7.9	24.9	24.9	40.3	55.1	53.8	53.8
97.5°	11.8	13.1	18.4	76.0	56.7	55.2	78.8	86.6	87.4
100°	17.1	18.3	28.9	123.8	84.0	71.2	84.0	102.5	106.3
102.5°	23.4	25.7	45.7	195.4	118.7	85.3	98.7	111.9	115.8
105°	35.4	39.3	95.8	327.4	181.1	113.1	124.7	131.3	132.6
107.5°	53.3	67.7	262.2	460.5	257.0	149.7	156.5	161.0	162.5
110°	72.2	103.0	455.5	540.9	313.7	177.7	173.3	185.0	182.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	121.5	211.9	668.6	606.8	370.4	210.7	189.0	208.2	209.7
115°	340.0	583.8	893.9	700.6	456.8	268.1	213.9	232.5	240.2
117.5°	853.2	1015.1	1012.5	787.4	539.7	335.7	243.9	252.7	261.5
120°	1147.2	1171.6	1072.4	846.1	593.3	384.1	269.1	265.3	273.0
122.5°	1256.4	1236.6	1117.5	897.6	647.9	434.6	301.6	278.9	285.6
125°	1350.6	1312.1	1176.0	971.0	728.5	509.0	361.0	308.4	307.1
127.5°	1402.9	1362.6	1233.3	1034.8	802.5	586.4	428.4	350.2	338.4
130°	1428.1	1390.8	1273.2	1073.9	851.8	638.8	477.8	386.8	368.8
132.5°	1458.5	1418.2	1301.5	1113.9	899.1	688.1	527.1	430.8	409.8
135°	1488.4	1451.2	1348.0	1166.2	966.0	760.7	598.5	503.4	476.5
137.5°	1515.2	1481.1	1390.5	1207.4	1026.4	832.1	674.1	581.5	548.6
140°	1533.1	1495.8	1408.4	1239.0	1063.2	877.1	724.5	632.1	606.4
142.5°	1539.4	1516.5	1427.3	1265.6	1104.1	920.1	774.9	679.4	655.8
145°	1558.0	1542.6	1450.4	1297.4	1152.4	984.3	851.8	752.8	727.2
147.5°	1570.1	1547.0	1471.6	1331.9	1199.7	1041.8	921.7	826.6	802.8
150°	1571.1	1553.2	1488.4	1353.1	1231.2	1083.6	964.7	875.0	853.2
152.5°	1579.5	1557.5	1496.8	1371.1	1254.3	1119.0	1007.8	924.3	900.4
155°	1573.8	1558.4	1509.4	1394.2	1290.2	1164.5	1068.4	994.5	973.9
157.5°	1573.8	1554.8	1511.0	1412.2	1324.9	1214.5	1125.1	1056.8	1041.4
160°	1563.3	1555.6	1512.1	1424.9	1342.7	1242.6	1162.9	1100.8	1080.2
162.5°	1559.1	1546.2	1514.2	1433.4	1358.5	1265.6	1195.5	1136.6	1121.2
165°	1540.9	1529.4	1501.6	1437.3	1383.4	1306.4	1243.0	1190.3	1182.6
167.5°	1520.2	1511.2	1492.9	1443.6	1400.0	1337.1	1283.7	1241.2	1230.7
170°	1505.5	1491.4	1484.5	1446.9	1408.4	1355.8	1309.9	1271.6	1260.1
172.5°	1480.3	1478.5	1472.9	1438.8	1415.7	1372.3	1334.1	1299.0	1291.6
175°	1450.4	1450.4	1454.3	1433.1	1425.4	1389.5	1362.4	1341.2	1329.6
177.5°	1415.7	1416.7	1425.2	1424.1	1425.2	1404.6	1396.8	1376.8	1374.8
180°	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4	1408.4

(END OF REPORT)