

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: P522316

Luminaire Tested: **SQW-F-025U-100D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522316
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

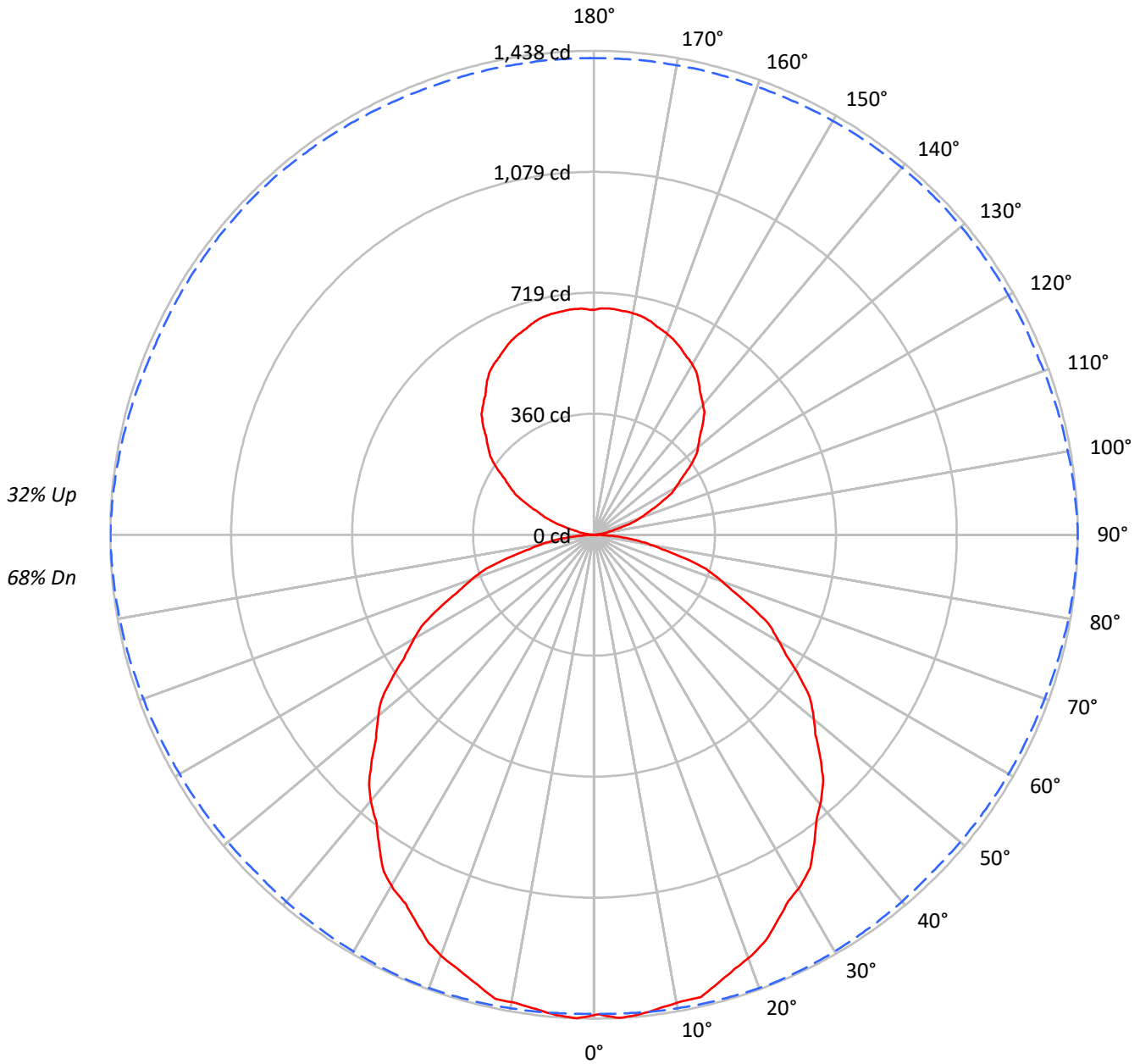
Lumens per Lamp: N/A
Luminaire Lumens: 5848.5 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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°	23021	23021	23021
5°	23293	23211	22857
10°	23055	23140	22817
15°	23142	23107	22674
20°	22596	22952	22153
25°	22563	22618	21788
30°	22281	22570	21567
35°	21760	22210	21191
40°	21547	21918	20763
45°	21336	21523	20390
50°	20585	21235	19806
55°	20389	20825	19108
60°	19478	20215	18409
65°	18621	19568	17471
70°	17778	18661	16315
75°	16525	17168	14716
80°	14142	15007	12311
85°	10541	11689	8429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	2.3
10°-20°	385.9	6.6
20°-30°	579.4	9.9
30°-40°	692.6	11.8
40°-50°	712.7	12.2
50°-60°	641.6	11.0
60°-70°	487.3	8.3
70°-80°	278.1	4.8
80°-90°	72.8	1.2
90°-100°	17.5	0.3
100°-110°	76.0	1.3
110°-120°	216.7	3.7
120°-130°	329.5	5.6
130°-140°	356.4	6.1
140°-150°	340.6	5.8
150°-160°	280.1	4.8
160°-170°	183.0	3.1
170°-180°	63.3	1.1
0°-30°	1100.3	18.8
0°-40°	1792.9	30.7
0°-60°	3147.2	53.8
0°-90°	3985.3	68.1
90°-120°	310.3	5.3
90°-150°	1336.8	22.9
90°-180°	1863.0	31.9
0°-180°	5848.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1437	1426	1432	1407	1410	135
15°	1384	1376	1382	1363	1356	387
25°	1266	1274	1270	1256	1223	582
35°	1104	1131	1127	1102	1075	695
45°	934	942	943	922	893	714
55°	724	737	740	710	679	641
65°	487	501	512	477	457	485
75°	265	272	275	251	236	277
85°	57	65	63	57	46	68
90°	0	0	0	0	0	2
95°	3	4	12	28	27	4
105°	18	45	88	60	65	20
115°	160	425	219	104	118	220
125°	637	561	351	172	148	560
135°	705	638	461	286	227	543
145°	735	688	550	407	347	460
155°	743	710	614	510	462	343
165°	726	710	658	590	562	206
175°	684	685	673	649	632	66
180°	668	668	668	668	668	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1424.2	1435.5	1420.1	1424.5	1438.3	1421.3	1425.8	1417.6	1416.7
5°	1437.2	1420.0	1425.8	1417.9	1432.1	1418.9	1407.2	1422.5	1410.3
7.5°	1412.8	1401.7	1424.4	1413.0	1420.5	1411.6	1412.8	1404.3	1404.1
10°	1406.2	1399.1	1406.2	1406.3	1411.4	1399.2	1397.9	1388.7	1391.7
12.5°	1387.1	1397.1	1386.3	1399.8	1410.5	1389.5	1381.4	1384.6	1390.0
15°	1384.5	1381.4	1376.2	1372.3	1382.4	1358.1	1362.7	1353.5	1356.5
17.5°	1342.4	1348.1	1350.7	1347.4	1356.5	1334.5	1329.2	1329.2	1330.7
20°	1315.1	1327.3	1335.8	1326.7	1335.8	1318.6	1315.1	1302.4	1289.3
22.5°	1300.2	1297.8	1315.1	1297.0	1309.3	1288.1	1297.7	1275.6	1282.6
25°	1266.5	1256.4	1273.7	1263.5	1269.6	1252.4	1256.2	1229.1	1223.0
27.5°	1221.6	1221.6	1232.1	1227.9	1232.1	1218.4	1214.6	1189.9	1187.4
30°	1195.1	1187.0	1206.5	1197.5	1210.6	1178.2	1180.6	1160.9	1156.8
32.5°	1159.5	1162.7	1175.9	1164.4	1180.0	1149.2	1155.0	1124.6	1129.5
35°	1104.0	1110.1	1131.0	1115.7	1126.8	1108.6	1102.0	1082.2	1075.1
37.5°	1068.7	1059.4	1069.5	1070.4	1073.8	1053.8	1046.5	1022.6	1024.8
40°	1022.3	1020.3	1034.7	1038.9	1039.9	1020.7	1015.1	986.1	985.1
42.5°	980.1	982.1	994.2	999.1	999.3	980.1	979.5	948.1	951.9
45°	934.4	931.3	941.6	940.6	942.6	922.4	921.9	892.0	893.0
47.5°	862.5	869.0	876.0	878.0	885.9	868.7	856.5	832.7	829.0
50°	819.5	831.6	833.0	842.3	845.4	824.1	814.3	794.5	788.5
52.5°	781.4	787.9	793.2	799.3	804.0	784.4	769.6	750.8	749.6
55°	724.3	720.3	736.7	734.8	739.8	724.6	709.8	688.9	678.8
57.5°	650.4	658.3	662.0	669.7	673.2	656.6	643.6	621.4	620.6
60°	603.2	614.4	615.7	629.0	626.0	611.8	598.1	578.2	570.1
62.5°	560.2	563.2	571.8	581.1	582.1	566.4	555.9	534.4	528.7
65°	487.4	493.4	500.8	513.2	512.2	501.1	477.0	465.4	457.3
67.5°	421.3	423.4	433.3	439.2	443.3	427.9	414.1	397.9	394.4
70°	376.6	374.6	387.0	391.2	395.3	383.1	369.4	354.7	345.6
72.5°	327.8	329.8	339.0	345.7	348.1	335.9	321.4	310.1	304.2
75°	264.9	262.9	272.1	276.2	275.2	266.1	251.4	244.0	235.9
77.5°	195.1	199.2	204.7	208.4	206.9	200.9	189.4	178.1	174.7
80°	152.1	156.2	162.5	164.5	161.4	155.3	148.0	137.5	132.4
82.5°	112.4	114.8	121.1	124.7	120.0	116.4	109.9	101.9	96.0
85°	56.9	58.9	65.2	67.2	63.1	63.1	56.9	49.6	45.5
87.5°	13.2	14.1	19.0	24.7	19.9	21.5	16.6	12.3	9.1
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	2.7	9.8	10.9	9.5	9.5
95°	2.8	2.8	4.0	12.5	11.9	20.2	28.3	26.6	26.6
97.5°	5.8	6.3	9.1	36.9	27.8	27.0	38.3	42.6	43.4
100°	8.5	9.1	13.6	60.2	41.4	35.3	41.9	49.9	51.6
102.5°	11.7	12.7	21.8	94.7	58.2	41.4	47.8	54.9	57.0
105°	17.6	19.2	44.8	158.8	87.9	54.1	60.1	63.0	64.6
107.5°	26.1	32.8	120.6	223.1	124.7	71.4	77.8	77.3	78.8
110°	35.1	49.0	208.6	258.3	151.9	84.8	85.0	89.5	87.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.3	97.4	311.1	292.2	179.1	101.0	91.8	101.8	102.4
115°	159.8	274.6	425.1	339.6	219.4	129.6	104.3	114.0	117.9
117.5°	396.3	477.7	483.5	381.8	259.5	161.5	118.6	122.9	128.0
120°	537.4	554.0	510.7	407.6	286.3	184.3	130.4	128.8	134.3
122.5°	592.7	586.7	532.9	431.7	312.6	208.4	144.9	136.0	139.8
125°	637.1	621.6	560.6	465.0	350.9	244.5	172.3	147.9	147.9
127.5°	663.6	645.6	586.0	494.6	385.4	280.9	205.3	167.3	162.1
130°	679.1	659.7	601.4	515.1	408.1	304.5	228.4	184.0	175.7
132.5°	690.9	673.2	615.9	531.1	430.3	327.6	251.6	204.8	191.1
135°	705.1	690.2	638.3	555.6	461.4	362.2	286.3	240.6	226.7
137.5°	714.3	702.7	658.3	575.8	490.2	396.5	321.3	275.4	262.9
140°	719.3	709.9	668.3	587.7	507.9	418.7	345.8	299.0	287.4
142.5°	724.3	716.7	675.6	600.9	525.1	440.8	369.8	323.0	310.5
145°	734.6	725.7	687.6	616.9	549.8	471.7	407.0	358.0	346.9
147.5°	741.9	731.2	697.4	634.0	573.2	499.7	441.1	393.8	382.8
150°	743.7	732.6	702.9	643.2	587.2	516.9	462.0	416.9	406.4
152.5°	742.3	733.9	707.0	651.0	599.0	533.5	481.0	439.2	429.5
155°	743.1	735.4	710.2	661.5	613.9	556.8	509.6	472.5	462.5
157.5°	739.7	734.6	712.5	669.6	627.6	577.6	535.8	504.6	494.5
160°	739.7	732.0	712.5	674.3	637.1	591.1	552.1	524.1	515.8
162.5°	734.7	727.9	712.1	677.6	646.2	603.7	567.5	541.4	535.3
165°	725.5	720.0	709.7	681.9	657.5	620.9	589.5	566.2	562.3
167.5°	718.4	710.8	705.1	681.8	665.2	633.3	608.1	588.8	586.6
170°	710.2	705.3	700.6	680.5	668.9	642.3	621.2	601.9	599.7
172.5°	699.8	697.0	694.7	679.7	671.1	649.8	632.6	615.0	611.0
175°	683.6	685.8	685.3	677.8	673.4	659.5	649.0	636.4	631.5
177.5°	673.6	672.7	675.0	673.6	673.2	664.7	661.8	653.3	655.9
180°	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7

(END OF REPORT)