

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: P522505

Luminaire Tested: **SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522505  
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-025U-100D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

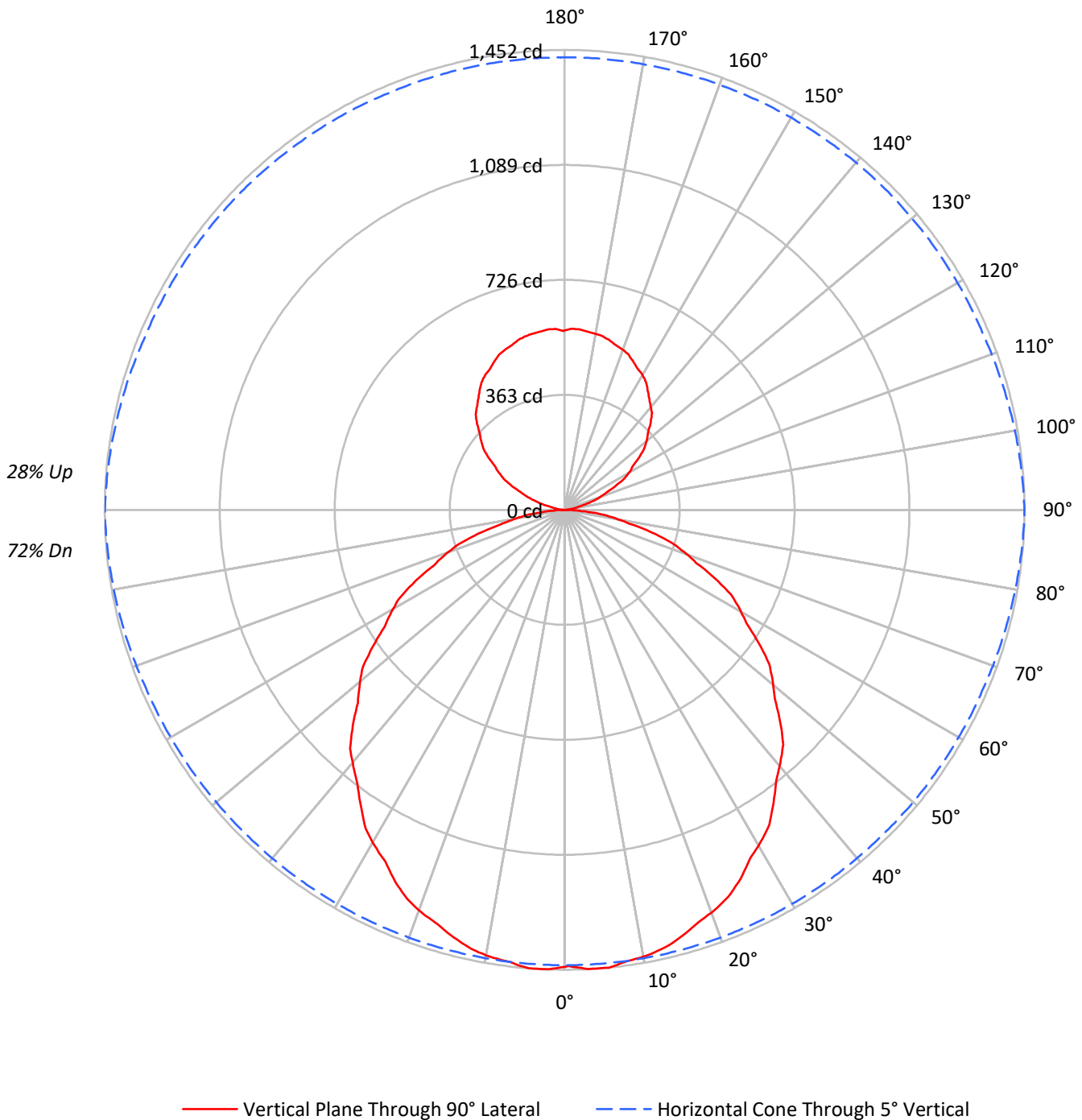
Lumens per Lamp: N/A  
Luminaire Lumens: 5599.1 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 57.9  
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





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR	0	112	112	112	112	106	106	106	106	96	96	96	85	85	85	76	76	76	72	72	72	67	66	64	60	60	60	59	56	54	50															
	1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	66	64	60	60	60	59	56	54	50	50	50	49	48	45	42															
	2	93	85	79	73	88	81	75	70	73	69	65	66	62	59	59	56	54	50	50	50	52	48	45	42	42	42	42	42	39	36															
	3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	42	42	42	42	42	42	42	42	42	42	42	42	42															
	4	78	66	58	52	73	63	56	50	57	51	46	52	47	42	46	42	39	36	36	36	36	36	36	36	36	36	36	36	36	36															
	5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	42	37	34	31	31	31	31	31	31	31	31	31	31	31	31	31															
	6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	27	27	27	27	27	27	27	27	27	27	27	27	27															
	7	61	48	40	34	57	46	38	33	42	35	31	38	33	28	34	30	26	24	24	24	24	24	24	24	24	24	24	24	24	24															
	8	57	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24	21	21	21	21	21	21	21	21	21	21	21	21	21															
	9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19	19	19	19	19	19	19	19	19	19	19	19	19															
	10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	17	17	17	17	17	17	17	17	17	17	17	17	17															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	23269	23269	23269
5°	23308	23538	23161
10°	23263	23463	22982
15°	23280	23330	22806
20°	23077	23199	22471
25°	22830	22992	22110
30°	22592	22723	21707
35°	22330	22391	21335
40°	22025	22110	20896
45°	21623	21783	20400
50°	21197	21401	19826
55°	20569	20966	19175
60°	19972	20496	18406
65°	19228	19924	17490
70°	18227	18940	16173
75°	16962	17654	14311
80°	15221	15035	11836
85°	11801	11986	7484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.4	2.4
10°-20°	389.6	7.0
20°-30°	586.0	10.5
30°-40°	700.1	12.5
40°-50°	719.8	12.9
50°-60°	648.0	11.6
60°-70°	493.4	8.8
70°-80°	281.3	5.0
80°-90°	73.8	1.3
90°-100°	14.3	0.3
100°-110°	63.3	1.1
110°-120°	181.9	3.2
120°-130°	277.1	4.9
130°-140°	300.8	5.4
140°-150°	287.6	5.1
150°-160°	237.0	4.2
160°-170°	155.1	2.8
170°-180°	53.7	1.0
0°-30°	1111.9	19.9
0°-40°	1812.0	32.4
0°-60°	3179.7	56.8
0°-90°	4028.3	71.9
90°-120°	259.5	4.6
90°-150°	1125.1	20.1
90°-180°	1571.0	28.1
0°-180°	5599.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1441	1441	1441	1441	1441	
5°	1438	1436	1452	1432	1429	137
15°	1393	1393	1396	1376	1364	392
25°	1282	1293	1291	1263	1241	590
35°	1133	1146	1136	1108	1082	708
45°	947	954	954	918	893	729
55°	731	747	745	707	681	656
65°	503	516	522	479	458	497
75°	272	280	283	250	229	288
85°	64	69	65	54	40	75
90°	0	0	0	0	0	2
95°	2	3	10	22	22	3
105°	14	38	73	50	53	17
115°	136	359	183	86	96	188
125°	542	472	292	145	123	476
135°	597	541	388	240	191	461
145°	625	582	462	342	292	392
155°	632	606	518	429	391	292
165°	618	602	555	499	474	175
175°	582	584	572	547	534	56
180°	565	565	565	565	565	



TEST NUMBER: P522505

CATALOG NUMBER: SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2
2.5°	1439.6	1442.7	1441.2	1439.0	1451.7	1437.5	1439.6	1437.8	1429.9
5°	1438.1	1437.2	1436.1	1437.5	1452.3	1433.5	1432.1	1429.0	1429.0
7.5°	1432.7	1431.7	1430.5	1426.3	1438.3	1419.8	1420.4	1417.2	1413.1
10°	1418.9	1421.9	1420.0	1418.2	1431.1	1409.3	1409.8	1406.7	1401.8
12.5°	1412.5	1412.3	1411.1	1405.3	1417.3	1395.6	1395.3	1391.4	1388.0
15°	1392.7	1391.7	1392.7	1382.8	1395.7	1375.9	1375.5	1367.3	1364.4
17.5°	1364.2	1365.7	1367.2	1357.2	1368.8	1345.3	1345.0	1335.4	1333.6
20°	1343.1	1343.1	1350.2	1339.3	1350.2	1327.5	1328.0	1308.8	1307.8
22.5°	1318.1	1319.7	1327.6	1316.7	1326.0	1302.4	1301.3	1285.2	1281.1
25°	1281.5	1282.5	1292.6	1279.7	1290.6	1265.9	1263.3	1242.1	1241.1
27.5°	1241.7	1241.3	1253.4	1238.4	1247.1	1225.2	1222.1	1199.6	1198.2
30°	1211.8	1209.8	1225.9	1210.9	1218.8	1196.1	1194.6	1167.2	1164.3
32.5°	1180.2	1179.0	1193.6	1181.0	1186.5	1165.3	1157.4	1134.9	1133.5
35°	1132.9	1129.0	1146.1	1133.0	1136.0	1116.2	1107.7	1084.4	1082.4
37.5°	1079.0	1077.2	1089.7	1081.5	1086.2	1065.5	1051.3	1029.0	1027.8
40°	1045.0	1040.1	1054.1	1045.1	1049.0	1028.3	1015.7	993.4	991.4
42.5°	1003.8	1003.6	1015.3	1007.9	1012.7	991.1	975.3	953.8	951.0
45°	947.0	944.0	954.0	952.1	954.0	931.3	917.7	893.4	893.4
47.5°	884.3	882.3	895.8	890.4	893.2	873.4	855.8	834.1	830.5
50°	843.9	841.9	853.0	850.0	852.0	832.2	814.6	791.3	789.3
52.5°	801.8	799.9	811.7	807.9	809.1	791.7	772.5	751.6	748.1
55°	730.7	735.6	746.9	745.8	744.8	727.1	707.4	686.1	681.2
57.5°	669.4	671.4	679.4	680.9	677.5	665.9	642.0	621.2	616.1
60°	618.5	624.4	635.7	635.7	634.7	619.9	594.3	575.9	570.0
62.5°	571.6	578.3	588.0	590.4	589.4	571.4	549.8	532.2	524.7
65°	503.3	508.2	516.4	521.5	521.5	501.7	479.0	462.8	457.8
67.5°	432.2	438.1	445.7	451.7	448.9	430.5	410.9	396.2	387.9
70°	386.1	392.0	397.2	403.2	401.2	384.4	364.8	348.5	342.6
72.5°	339.2	345.9	350.3	355.5	352.7	335.9	318.8	304.0	296.5
75°	271.9	273.8	279.9	284.0	283.0	266.2	249.6	237.3	229.4
77.5°	205.8	206.6	211.6	213.3	208.6	197.9	184.5	174.9	167.0
80°	163.7	163.7	168.8	169.6	161.7	155.8	142.5	135.2	127.3
82.5°	120.9	121.7	128.4	128.4	122.1	115.4	106.1	98.1	93.4
85°	63.7	64.7	68.7	71.6	64.7	60.7	53.6	45.4	40.4
87.5°	17.0	17.8	23.4	26.5	20.2	20.2	12.9	8.9	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.4	0.4	0.8	1.3	2.1	7.9	8.8	8.0	7.6
95°	2.1	2.1	3.2	10.0	10.0	16.2	22.1	21.6	21.6
97.5°	4.7	5.3	7.4	30.5	22.8	22.1	31.6	34.8	35.1
100°	6.8	7.4	11.6	49.7	33.7	28.6	33.7	41.1	42.7
102.5°	9.4	10.3	18.3	78.4	47.6	34.2	39.6	44.9	46.5
105°	14.2	15.8	38.4	131.4	72.7	45.4	50.0	52.7	53.2
107.5°	21.4	27.2	105.2	184.8	103.1	60.1	62.8	64.6	65.2
110°	29.0	41.3	182.8	217.0	125.9	71.3	69.5	74.2	73.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	48.8	85.0	268.3	243.5	148.6	84.6	75.8	83.5	84.2
115°	136.4	234.3	358.7	281.1	183.3	107.6	85.8	93.3	96.4
117.5°	342.3	407.3	406.3	316.0	216.6	134.7	97.9	101.4	104.9
120°	460.3	470.1	430.3	339.5	238.1	154.1	108.0	106.5	109.5
122.5°	504.1	496.2	448.4	360.2	260.0	174.4	121.0	111.9	114.6
125°	541.9	526.5	471.9	389.6	292.3	204.2	144.8	123.8	123.2
127.5°	562.9	546.7	494.9	415.2	322.0	235.3	171.9	140.5	135.8
130°	573.0	558.1	510.9	430.9	341.8	256.3	191.7	155.2	148.0
132.5°	585.2	569.1	522.2	447.0	360.8	276.1	211.5	172.9	164.4
135°	597.2	582.3	540.9	468.0	387.6	305.2	240.2	202.0	191.2
137.5°	608.0	594.3	558.0	484.5	411.9	333.9	270.5	233.3	220.1
140°	615.2	600.2	565.1	497.2	426.6	351.9	290.7	253.6	243.3
142.5°	617.7	608.5	572.7	507.8	443.0	369.2	310.9	272.6	263.1
145°	625.2	619.0	582.0	520.6	462.4	395.0	341.8	302.1	291.8
147.5°	630.0	620.7	590.5	534.4	481.4	418.0	369.8	331.7	322.1
150°	630.4	623.2	597.2	542.9	494.0	434.8	387.1	351.1	342.3
152.5°	633.8	624.9	600.6	550.2	503.3	449.0	404.4	370.9	361.3
155°	631.5	625.3	605.7	559.4	517.7	467.3	428.7	399.0	390.8
157.5°	631.5	623.9	606.3	566.6	531.6	487.3	451.5	424.0	417.9
160°	627.3	624.2	606.7	571.7	538.8	498.6	466.6	441.7	433.5
162.5°	625.6	620.4	607.6	575.2	545.1	507.8	479.7	456.1	449.9
165°	618.3	613.7	602.5	576.7	555.1	524.2	498.8	477.6	474.5
167.5°	610.0	606.4	599.0	579.3	561.7	536.5	515.1	498.0	493.8
170°	604.1	598.4	595.7	580.6	565.1	544.0	525.6	510.2	505.6
172.5°	594.0	593.3	591.0	577.3	568.1	550.7	535.3	521.2	518.2
175°	582.0	582.0	583.6	575.1	572.0	557.5	546.7	538.2	533.5
177.5°	568.1	568.5	571.9	571.4	571.9	563.6	560.5	552.5	551.6
180°	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1	565.1

(END OF REPORT)