

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: P522506

Luminaire Tested: **SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522506
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

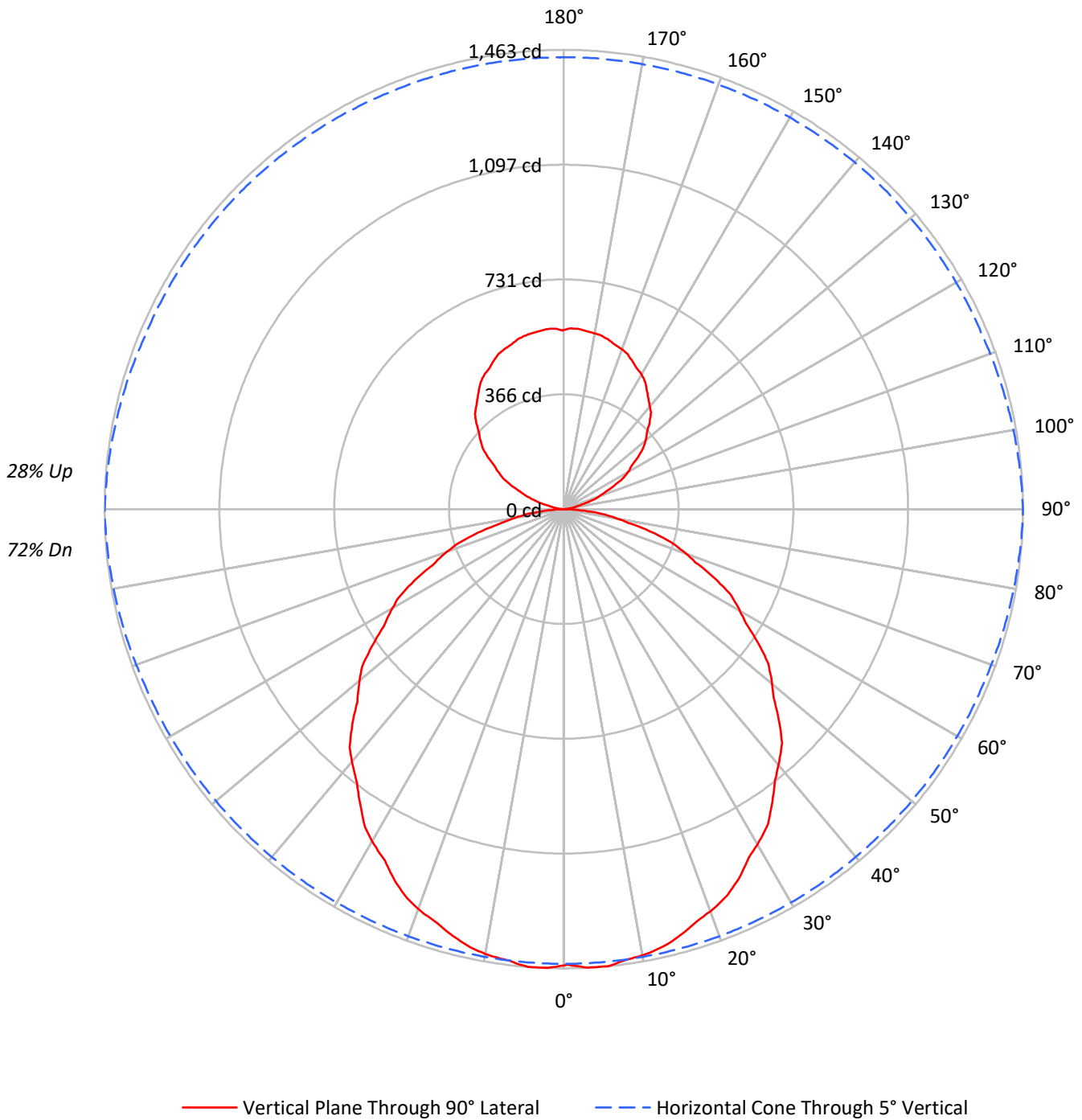
Lumens per Lamp: N/A
Luminaire Lumens: 5638.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 57.8
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	
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	0	
RCR																						
0	112	112	112	112	106	106	106	106	96	96	96	85	85	85	76	76	76	72				72
1	103	98	94	90	97	93	89	86	84	81	78	75	73	71	67	66	64	60				60
2	93	85	79	73	88	81	75	70	73	69	65	66	62	59	59	56	54	50				50
3	85	75	67	61	80	71	64	59	64	59	54	58	53	50	52	48	45	42				42
4	78	66	58	52	73	63	56	50	57	51	46	52	47	42	46	42	39	36				36
5	71	59	50	44	67	56	48	43	51	45	40	46	41	37	42	37	34	31				31
6	66	53	44	38	62	51	43	37	46	39	35	42	36	32	38	33	30	27				27
7	61	48	40	34	57	46	38	33	42	35	31	38	33	28	34	30	26	24				24
8	57	44	35	30	53	42	34	29	38	32	27	35	29	25	32	27	24	21				21
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	29	25	21	19				19
10	49	37	29	24	47	35	28	23	32	26	22	30	24	21	27	23	19	17				17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23434	23434	23434
5°	23473	23705	23324
10°	23428	23628	23145
15°	23443	23495	22967
20°	23240	23364	22629
25°	22990	23154	22265
30°	22751	22883	21860
35°	22488	22549	21484
40°	22181	22268	21043
45°	21776	21939	20543
50°	21346	21552	19967
55°	20715	21115	19310
60°	20114	20641	18535
65°	19366	20065	17616
70°	18354	19076	16287
75°	17080	17779	14410
80°	15332	15137	11920
85°	11875	12060	7540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	2.4
10°-20°	392.3	7.0
20°-30°	590.1	10.5
30°-40°	705.0	12.5
40°-50°	724.8	12.9
50°-60°	652.5	11.6
60°-70°	496.9	8.8
70°-80°	283.3	5.0
80°-90°	74.4	1.3
90°-100°	14.4	0.3
100°-110°	63.8	1.1
110°-120°	183.2	3.2
120°-130°	279.1	4.9
130°-140°	302.9	5.4
140°-150°	289.7	5.1
150°-160°	238.7	4.2
160°-170°	156.2	2.8
170°-180°	54.1	1.0
0°-30°	1119.8	19.9
0°-40°	1824.8	32.4
0°-60°	3202.2	56.8
0°-90°	4056.7	71.9
90°-120°	261.3	4.6
90°-150°	1133.0	20.1
90°-180°	1582.0	28.1
0°-180°	5638.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1451	1451	1451	1451	1451	
5°	1448	1446	1463	1442	1439	138
15°	1402	1402	1406	1385	1374	395
25°	1290	1302	1300	1272	1250	595
35°	1141	1154	1144	1116	1090	713
45°	954	961	961	924	900	735
55°	736	752	750	712	686	660
65°	507	520	525	482	461	501
75°	274	282	285	251	231	290
85°	64	69	65	54	41	75
90°	0	0	0	0	0	2
95°	2	3	10	22	22	3
105°	14	39	73	50	54	17
115°	137	361	185	86	97	190
125°	546	475	294	146	124	479
135°	602	545	390	242	192	464
145°	630	586	466	344	294	394
155°	636	610	521	432	394	294
165°	623	607	559	502	478	177
175°	586	588	576	550	537	57
180°	569	569	569	569	569	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1449.7	1452.9	1451.4	1449.2	1461.9	1447.6	1449.7	1447.9	1440.0
5°	1448.3	1447.3	1446.3	1447.6	1462.6	1443.6	1442.2	1439.1	1439.1
7.5°	1442.8	1441.8	1440.6	1436.4	1448.5	1429.8	1430.4	1427.2	1423.1
10°	1429.0	1432.0	1430.0	1428.2	1441.2	1419.3	1419.8	1416.6	1411.7
12.5°	1422.5	1422.3	1421.0	1415.2	1427.3	1405.4	1405.2	1401.2	1397.8
15°	1402.5	1401.5	1402.5	1392.6	1405.6	1385.7	1385.2	1377.0	1374.0
17.5°	1373.8	1375.4	1376.9	1366.7	1378.5	1354.8	1354.5	1344.9	1343.1
20°	1352.6	1352.6	1359.8	1348.8	1359.8	1336.9	1337.4	1318.0	1317.0
22.5°	1327.4	1329.0	1337.0	1326.0	1335.3	1311.6	1310.5	1294.3	1290.1
25°	1290.5	1291.5	1301.7	1288.8	1299.7	1274.8	1272.2	1250.8	1249.8
27.5°	1250.4	1250.0	1262.3	1247.2	1255.9	1233.9	1230.7	1208.1	1206.7
30°	1220.3	1218.3	1234.6	1219.5	1227.4	1204.6	1203.0	1175.5	1172.5
32.5°	1188.6	1187.4	1202.0	1189.3	1194.9	1173.6	1165.6	1142.9	1141.5
35°	1140.9	1137.0	1154.2	1141.0	1144.0	1124.1	1115.5	1092.0	1090.0
37.5°	1086.6	1084.8	1097.4	1089.1	1093.9	1073.0	1058.7	1036.3	1035.1
40°	1052.4	1047.4	1061.5	1052.5	1056.5	1035.6	1022.9	1000.4	998.4
42.5°	1010.9	1010.7	1022.5	1015.0	1019.8	998.1	982.2	960.5	957.7
45°	953.7	950.7	960.8	958.8	960.8	937.9	924.1	899.7	899.7
47.5°	890.6	888.6	902.2	896.7	899.5	879.6	861.9	840.0	836.4
50°	849.8	847.9	859.0	856.0	858.0	838.1	820.3	796.9	794.9
52.5°	807.5	805.5	817.5	813.6	814.8	797.3	778.0	756.9	753.4
55°	735.9	740.8	752.1	751.1	750.1	732.2	712.4	691.0	686.0
57.5°	674.2	676.2	684.2	685.7	682.3	670.6	646.5	625.6	620.4
60°	622.9	628.9	640.2	640.2	639.2	624.2	598.5	580.0	574.0
62.5°	575.7	582.4	592.1	594.6	593.6	575.5	553.7	536.0	528.4
65°	506.9	511.8	520.1	525.2	525.2	505.3	482.4	466.0	461.1
67.5°	435.2	441.2	448.8	454.9	452.1	433.6	413.8	399.0	390.6
70°	388.8	394.8	400.0	406.1	404.1	387.1	367.4	351.0	345.0
72.5°	341.6	348.3	352.8	358.0	355.2	338.3	321.0	306.2	298.6
75°	273.8	275.8	281.9	286.0	285.0	268.1	251.4	239.0	231.0
77.5°	207.2	208.0	213.1	214.8	210.1	199.3	185.8	176.1	168.1
80°	164.9	164.9	170.0	170.8	162.8	156.9	143.5	136.2	128.2
82.5°	121.7	122.5	129.3	129.3	122.9	116.2	106.9	98.8	94.0
85°	64.1	65.1	69.2	72.1	65.1	61.2	53.9	45.7	40.7
87.5°	17.1	17.9	23.6	26.7	20.4	20.4	13.0	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	8.9	8.1	7.6
95°	2.1	2.1	3.2	10.1	10.1	16.3	22.3	21.7	21.7
97.5°	4.8	5.3	7.4	30.7	22.9	22.3	31.8	35.0	35.3
100°	6.9	7.4	11.7	50.0	33.9	28.8	33.9	41.4	43.0
102.5°	9.4	10.4	18.5	79.0	47.9	34.5	39.9	45.2	46.8
105°	14.3	15.9	38.7	132.3	73.2	45.7	50.4	53.1	53.6
107.5°	21.5	27.3	106.0	186.1	103.9	60.5	63.2	65.0	65.7
110°	29.2	41.6	184.0	218.6	126.8	71.8	70.0	74.8	73.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	49.1	85.6	270.2	245.2	149.7	85.2	76.4	84.1	84.8
115°	137.4	235.9	361.2	283.1	184.6	108.3	86.5	94.0	97.1
117.5°	344.8	410.2	409.1	318.2	218.1	135.6	98.5	102.1	105.7
120°	463.6	473.4	433.3	341.9	239.7	155.2	108.7	107.2	110.3
122.5°	507.7	499.7	451.6	362.7	261.8	175.6	121.9	112.7	115.4
125°	545.8	530.2	475.2	392.4	294.4	205.7	145.9	124.6	124.1
127.5°	566.9	550.6	498.4	418.2	324.3	236.9	173.1	141.5	136.7
130°	577.1	562.0	514.5	433.9	344.2	258.1	193.1	156.3	149.0
132.5°	589.4	573.1	525.9	450.1	363.3	278.1	213.0	174.1	165.6
135°	601.5	586.4	544.7	471.3	390.4	307.4	241.9	203.4	192.5
137.5°	612.3	598.5	561.9	487.9	414.8	336.3	272.4	235.0	221.7
140°	619.5	604.5	569.1	500.7	429.6	354.4	292.8	255.4	245.0
142.5°	622.0	612.8	576.8	511.4	446.2	371.8	313.1	274.5	265.0
145°	629.6	623.4	586.1	524.3	465.7	397.7	344.2	304.2	293.8
147.5°	634.5	625.1	594.7	538.2	484.8	421.0	372.4	334.0	324.4
150°	634.9	627.6	601.5	546.8	497.5	437.9	389.8	353.6	344.8
152.5°	638.3	629.4	604.9	554.0	506.8	452.2	407.2	373.5	363.9
155°	635.9	629.7	610.0	563.4	521.4	470.6	431.7	401.9	393.6
157.5°	635.9	628.3	610.6	570.6	535.4	490.8	454.7	427.0	420.8
160°	631.7	628.6	611.0	575.8	542.6	502.1	469.9	444.8	436.5
162.5°	630.0	624.8	611.9	579.2	549.0	511.4	483.1	459.3	453.1
165°	622.7	618.0	606.8	580.8	559.0	527.9	502.3	481.0	477.9
167.5°	614.3	610.7	603.3	583.4	565.7	540.3	518.7	501.5	497.3
170°	608.4	602.7	599.9	584.7	569.1	547.8	529.3	513.8	509.2
172.5°	598.2	597.5	595.2	581.4	572.1	554.6	539.1	524.9	521.9
175°	586.1	586.1	587.7	579.1	576.0	561.5	550.5	542.0	537.3
177.5°	572.1	572.5	575.9	575.5	575.9	567.6	564.4	556.4	555.5
180°	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1

(END OF REPORT)