

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: P522504

Luminaire Tested: **SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522504
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

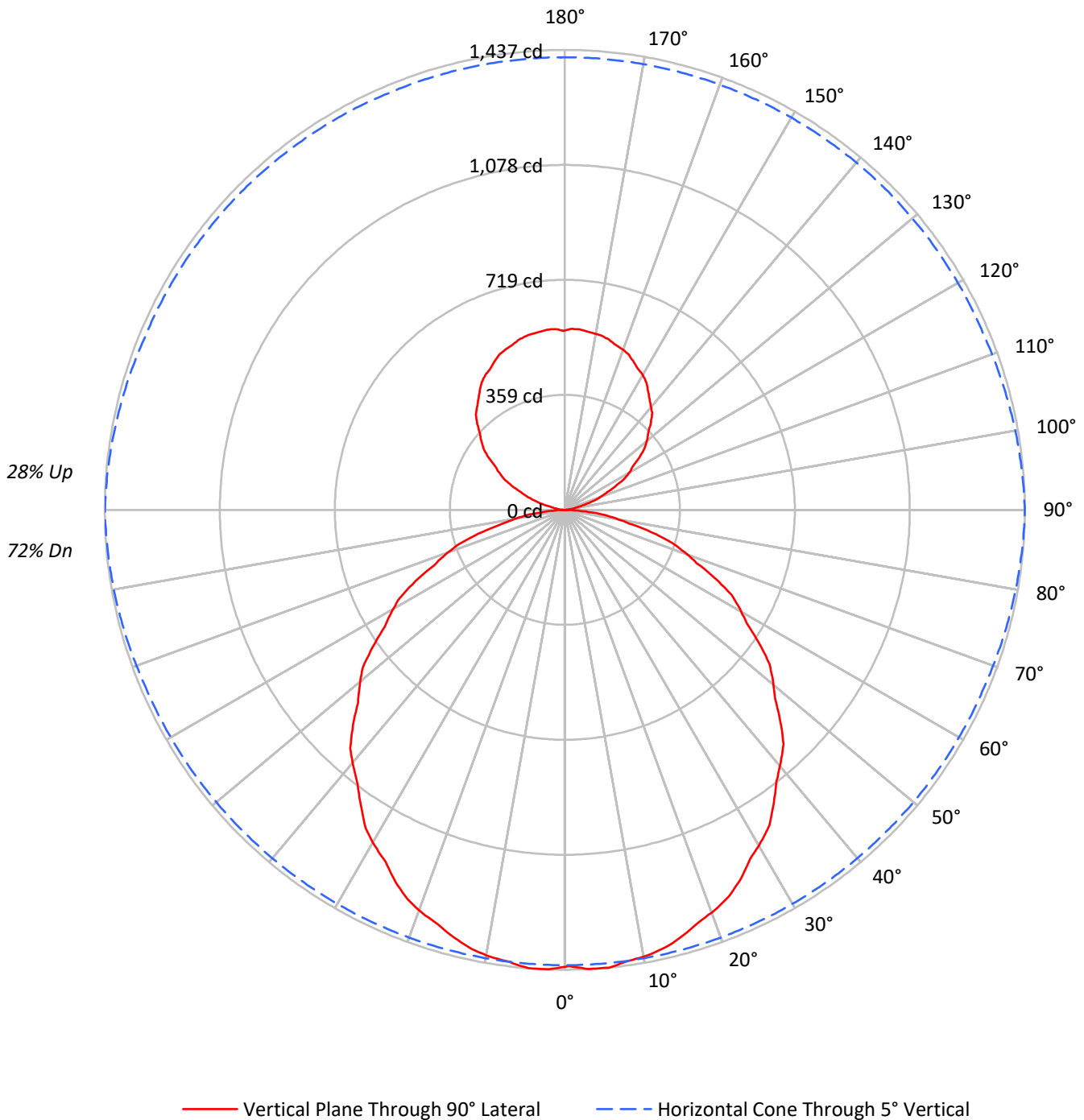
Lumens per Lamp: N/A
Luminaire Lumens: 5540.1 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23024	23024	23024
5°	23063	23290	22917
10°	23018	23215	22740
15°	23034	23084	22566
20°	22835	22955	22234
25°	22589	22750	21877
30°	22354	22484	21477
35°	22095	22155	21110
40°	21794	21878	20676
45°	21395	21555	20185
50°	20974	21175	19618
55°	20352	20746	18973
60°	19763	20279	18213
65°	19026	19713	17307
70°	18033	18741	16003
75°	16781	17467	14161
80°	15063	14877	11716
85°	11671	11856	7410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	2.4
10°-20°	385.5	7.0
20°-30°	579.8	10.5
30°-40°	692.7	12.5
40°-50°	712.2	12.9
50°-60°	641.1	11.6
60°-70°	488.2	8.8
70°-80°	278.4	5.0
80°-90°	73.1	1.3
90°-100°	14.1	0.3
100°-110°	62.6	1.1
110°-120°	180.0	3.2
120°-130°	274.2	4.9
130°-140°	297.6	5.4
140°-150°	284.6	5.1
150°-160°	234.5	4.2
160°-170°	153.4	2.8
170°-180°	53.1	1.0
0°-30°	1100.2	19.9
0°-40°	1792.9	32.4
0°-60°	3146.2	56.8
0°-90°	3985.9	71.9
90°-120°	256.8	4.6
90°-150°	1113.2	20.1
90°-180°	1554.0	28.0
0°-180°	5540.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1426	1426	1426	1426	1426	
5°	1423	1421	1437	1417	1414	135
15°	1378	1378	1381	1361	1350	388
25°	1268	1279	1277	1250	1228	584
35°	1121	1134	1124	1096	1071	700
45°	937	944	944	908	884	722
55°	723	739	737	700	674	649
65°	498	511	516	474	453	492
75°	269	277	280	247	227	285
85°	63	68	64	53	40	74
90°	0	0	0	0	0	2
95°	2	3	10	22	21	3
105°	14	38	72	50	53	16
115°	135	355	181	85	95	187
125°	536	467	289	143	122	471
135°	591	535	384	238	189	456
145°	619	576	458	338	289	388
155°	625	599	512	424	387	289
165°	612	596	549	494	470	174
175°	576	577	566	541	528	56
180°	559	559	559	559	559	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0	1426.0
2.5°	1424.4	1427.5	1426.0	1423.9	1436.4	1422.3	1424.4	1422.6	1414.8
5°	1423.0	1422.0	1421.0	1422.3	1437.0	1418.4	1417.0	1414.0	1414.0
7.5°	1417.6	1416.6	1415.4	1411.3	1423.2	1404.8	1405.4	1402.3	1398.2
10°	1404.0	1406.9	1405.0	1403.3	1416.0	1394.5	1395.0	1391.9	1387.0
12.5°	1397.6	1397.4	1396.2	1390.5	1402.4	1380.9	1380.6	1376.7	1373.4
15°	1378.0	1377.0	1378.0	1368.3	1381.0	1361.4	1361.0	1352.9	1350.0
17.5°	1349.8	1351.4	1352.8	1342.9	1354.4	1331.1	1330.8	1321.4	1319.6
20°	1329.0	1329.0	1336.0	1325.2	1336.0	1313.5	1314.0	1295.0	1294.0
22.5°	1304.2	1305.8	1313.6	1302.8	1312.0	1288.7	1287.6	1271.7	1267.6
25°	1268.0	1269.0	1279.0	1266.2	1277.0	1252.6	1250.0	1229.0	1228.0
27.5°	1228.6	1228.2	1240.2	1225.4	1234.0	1212.3	1209.2	1187.0	1185.6
30°	1199.0	1197.0	1213.0	1198.2	1206.0	1183.5	1182.0	1154.9	1152.0
32.5°	1167.8	1166.6	1181.0	1168.5	1174.0	1153.1	1145.2	1123.0	1121.6
35°	1121.0	1117.1	1134.0	1121.1	1124.0	1104.4	1096.0	1073.0	1071.0
37.5°	1067.6	1065.8	1078.2	1070.1	1074.8	1054.3	1040.2	1018.2	1017.0
40°	1034.0	1029.1	1043.0	1034.1	1038.0	1017.5	1005.0	983.0	981.0
42.5°	993.2	993.0	1004.6	997.3	1002.0	980.7	965.0	943.7	941.0
45°	937.0	934.1	944.0	942.0	944.0	921.5	908.0	884.0	884.0
47.5°	875.0	873.0	886.4	881.1	883.8	864.2	846.8	825.3	821.8
50°	835.0	833.0	844.0	841.0	843.0	823.4	806.0	783.0	781.0
52.5°	793.4	791.4	803.2	799.4	800.6	783.4	764.4	743.7	740.2
55°	723.0	727.9	739.0	738.0	737.0	719.4	700.0	678.9	674.0
57.5°	662.4	664.4	672.2	673.7	670.4	658.9	635.2	614.7	609.6
60°	612.0	617.9	629.0	629.0	628.0	613.3	588.0	569.9	564.0
62.5°	565.6	572.2	581.8	584.2	583.2	565.4	544.0	526.6	519.2
65°	498.0	502.9	511.0	516.0	516.0	496.4	474.0	457.9	453.0
67.5°	427.6	433.5	441.0	446.9	444.2	426.0	406.6	392.0	383.8
70°	382.0	387.9	393.0	399.0	397.0	380.4	361.0	344.9	339.0
72.5°	335.6	342.2	346.6	351.7	349.0	332.4	315.4	300.8	293.4
75°	269.0	271.0	277.0	281.0	280.0	263.4	247.0	234.8	227.0
77.5°	203.6	204.4	209.4	211.1	206.4	195.8	182.6	173.0	165.2
80°	162.0	162.0	167.0	167.8	160.0	154.1	141.0	133.8	126.0
82.5°	119.6	120.4	127.0	127.1	120.8	114.2	105.0	97.1	92.4
85°	63.0	64.0	68.0	70.8	64.0	60.1	53.0	44.9	40.0
87.5°	16.8	17.6	23.2	26.3	20.0	20.0	12.8	8.8	7.2
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	7.8	8.8	7.9	7.5
95°	2.1	2.1	3.1	9.9	9.9	16.0	21.9	21.4	21.4
97.5°	4.7	5.2	7.3	30.2	22.5	21.9	31.3	34.4	34.7
100°	6.8	7.3	11.5	49.1	33.4	28.3	33.4	40.7	42.2
102.5°	9.3	10.2	18.1	77.6	47.1	33.9	39.2	44.4	46.0
105°	14.1	15.6	38.0	130.0	71.9	44.9	49.5	52.1	52.6
107.5°	21.2	26.9	104.1	182.9	102.0	59.4	62.1	63.9	64.5
110°	28.7	40.9	180.8	214.7	124.5	70.5	68.8	73.5	72.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	48.3	84.1	265.5	240.9	147.1	83.7	75.0	82.7	83.3
115°	135.0	231.8	354.9	278.2	181.4	106.4	84.9	92.3	95.4
117.5°	338.7	403.0	402.0	312.6	214.3	133.3	96.8	100.3	103.8
120°	455.5	465.1	425.8	335.9	235.5	152.5	106.8	105.3	108.4
122.5°	498.8	491.0	443.7	356.4	257.2	172.5	119.8	110.7	113.4
125°	536.2	521.0	466.9	385.5	289.2	202.1	143.3	122.5	121.9
127.5°	557.0	541.0	489.7	410.8	318.6	232.8	170.1	139.0	134.3
130°	567.0	552.2	505.5	426.4	338.2	253.6	189.7	153.6	146.4
132.5°	579.1	563.1	516.7	442.3	357.0	273.2	209.3	171.1	162.7
135°	591.0	576.2	535.2	463.0	383.5	302.0	237.6	199.9	189.2
137.5°	601.6	588.0	552.1	479.4	407.5	330.4	267.7	230.9	217.8
140°	608.7	593.9	559.2	491.9	422.1	348.2	287.7	251.0	240.8
142.5°	611.2	602.1	566.7	502.5	438.4	365.3	307.7	269.7	260.4
145°	618.6	612.5	575.8	515.1	457.5	390.8	338.2	298.9	288.7
147.5°	623.4	614.2	584.3	528.8	476.3	413.6	365.9	328.2	318.7
150°	623.8	616.7	591.0	537.2	488.8	430.2	383.0	347.4	338.7
152.5°	627.1	618.4	594.3	544.4	498.0	444.3	400.1	367.0	357.5
155°	624.8	618.7	599.3	553.5	512.3	462.3	424.2	394.8	386.7
157.5°	624.8	617.3	599.9	560.7	526.0	482.2	446.7	419.6	413.5
160°	620.7	617.6	600.3	565.7	533.1	493.4	461.7	437.0	428.9
162.5°	619.0	613.9	601.2	569.1	539.4	502.5	474.6	451.3	445.1
165°	611.8	607.2	596.2	570.7	549.3	518.7	493.5	472.6	469.5
167.5°	603.6	600.0	592.7	573.2	555.8	530.9	509.7	492.8	488.6
170°	597.7	592.1	589.4	574.5	559.2	538.3	520.1	504.9	500.3
172.5°	587.7	587.0	584.8	571.3	562.1	544.9	529.7	515.7	512.8
175°	575.8	575.8	577.4	569.0	565.9	551.7	540.9	532.5	527.9
177.5°	562.1	562.5	565.8	565.4	565.8	557.7	554.6	546.6	545.8
180°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2

(END OF REPORT)