

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: P522507

Luminaire Tested: **SQW-F-025U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522507
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

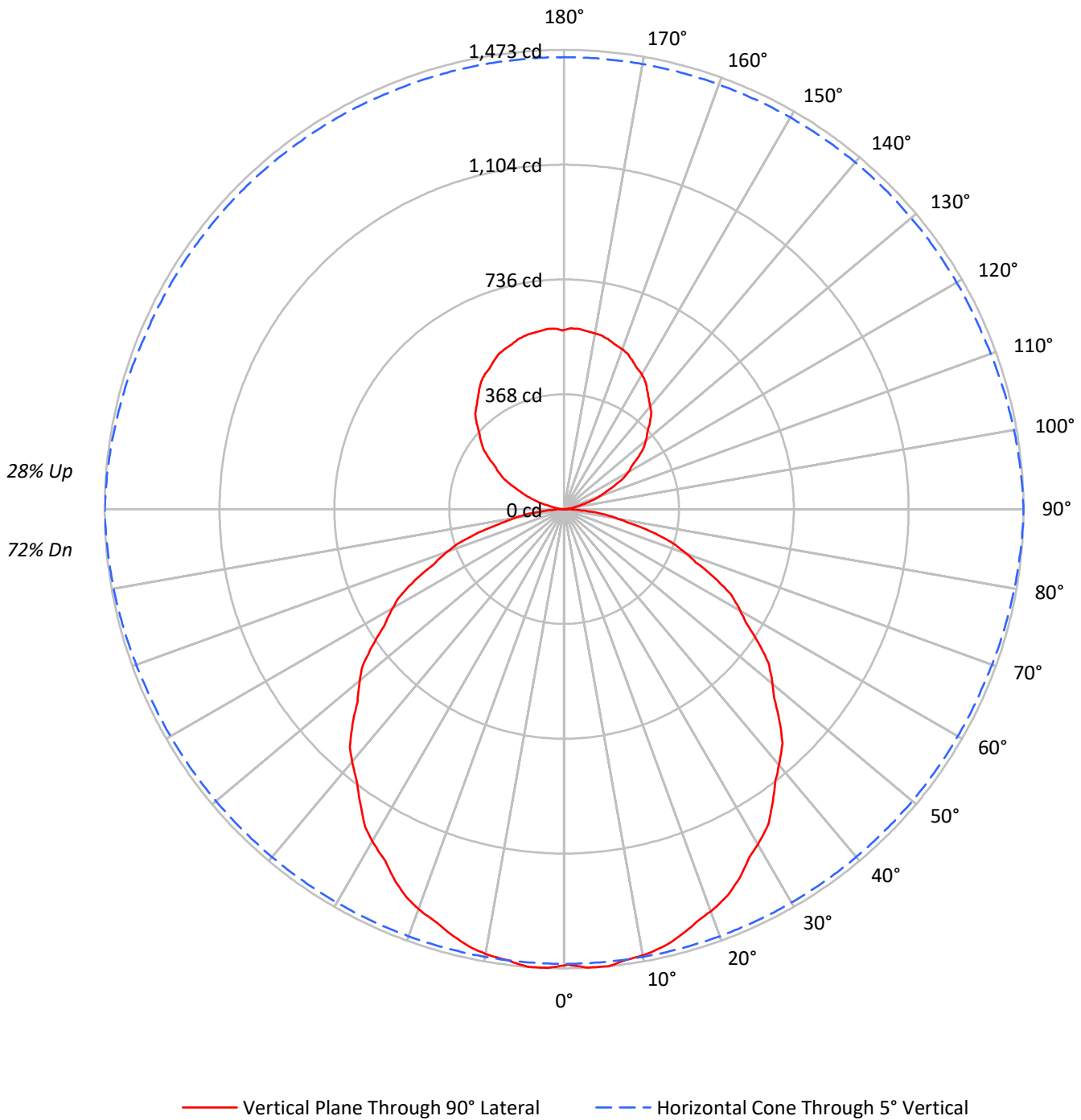
Lumens per Lamp: N/A
Luminaire Lumens: 5677.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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°	23594	23594	23594
5°	23634	23866	23485
10°	23587	23789	23302
15°	23604	23654	23124
20°	23400	23522	22783
25°	23147	23313	22418
30°	22906	23040	22009
35°	22641	22702	21632
40°	22333	22419	21189
45°	21925	22087	20685
50°	21491	21697	20102
55°	20856	21258	19443
60°	20250	20780	18661
65°	19496	20202	17734
70°	18477	19204	16400
75°	17199	17898	14510
80°	15435	15249	12004
85°	11967	12153	7595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	2.4
10°-20°	395.0	7.0
20°-30°	594.1	10.5
30°-40°	709.8	12.5
40°-50°	729.8	12.9
50°-60°	657.0	11.6
60°-70°	500.3	8.8
70°-80°	285.2	5.0
80°-90°	74.9	1.3
90°-100°	14.5	0.3
100°-110°	64.2	1.1
110°-120°	184.5	3.2
120°-130°	281.0	4.9
130°-140°	305.0	5.4
140°-150°	291.7	5.1
150°-160°	240.3	4.2
160°-170°	157.2	2.8
170°-180°	54.4	1.0
0°-30°	1127.4	19.9
0°-40°	1837.2	32.4
0°-60°	3224.0	56.8
0°-90°	4084.4	71.9
90°-120°	263.1	4.6
90°-150°	1140.8	20.1
90°-180°	1593.0	28.1
0°-180°	5677.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1461	1461	1461	1461	1461	
5°	1458	1456	1472	1452	1449	139
15°	1412	1412	1415	1395	1383	398
25°	1299	1311	1309	1281	1258	599
35°	1149	1162	1152	1123	1098	718
45°	960	967	967	930	906	740
55°	741	757	755	717	691	665
65°	510	524	529	486	464	504
75°	276	284	287	253	233	292
85°	65	70	66	54	41	76
90°	0	0	0	0	0	2
95°	2	3	10	22	22	3
105°	14	39	74	51	54	17
115°	138	364	186	87	98	191
125°	550	478	296	147	125	482
135°	606	548	393	244	194	468
145°	634	590	469	347	296	397
155°	640	614	525	435	396	296
165°	627	611	563	506	481	178
175°	590	592	580	554	541	57
180°	573	573	573	573	573	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1459.6	1462.8	1461.3	1459.1	1471.9	1457.5	1459.6	1457.8	1449.8
5°	1458.2	1457.2	1456.1	1457.5	1472.5	1453.5	1452.0	1449.0	1449.0
7.5°	1452.6	1451.6	1450.4	1446.2	1458.4	1439.5	1440.1	1437.0	1432.8
10°	1438.7	1441.7	1439.7	1438.0	1451.0	1429.0	1429.5	1426.3	1421.3
12.5°	1432.2	1432.0	1430.7	1424.8	1437.1	1415.0	1414.7	1410.8	1407.4
15°	1412.1	1411.1	1412.1	1402.1	1415.1	1395.1	1394.6	1386.4	1383.4
17.5°	1383.2	1384.8	1386.2	1376.1	1387.9	1364.0	1363.7	1354.0	1352.2
20°	1361.9	1361.9	1369.0	1358.0	1369.0	1346.0	1346.5	1327.0	1326.0
22.5°	1336.4	1338.0	1346.1	1335.0	1344.4	1320.6	1319.4	1303.1	1298.9
25°	1299.3	1300.4	1310.6	1297.5	1308.6	1283.5	1280.9	1259.4	1258.4
27.5°	1259.0	1258.6	1270.9	1255.7	1264.5	1242.3	1239.1	1216.3	1214.9
30°	1228.6	1226.6	1243.0	1227.8	1235.8	1212.8	1211.2	1183.5	1180.5
32.5°	1196.7	1195.5	1210.2	1197.4	1203.0	1181.6	1173.5	1150.7	1149.3
35°	1148.7	1144.7	1162.0	1148.8	1151.8	1131.7	1123.1	1099.5	1097.5
37.5°	1094.0	1092.2	1104.9	1096.6	1101.4	1080.3	1065.9	1043.3	1042.1
40°	1059.6	1054.6	1068.8	1059.7	1063.7	1042.6	1029.8	1007.3	1005.3
42.5°	1017.8	1017.6	1029.4	1022.0	1026.8	1004.9	988.9	967.1	964.3
45°	960.2	957.2	967.3	965.3	967.3	944.3	930.4	905.9	905.9
47.5°	896.6	894.6	908.3	902.8	905.6	885.6	867.7	845.7	842.1
50°	855.6	853.6	864.9	861.8	863.8	843.8	825.9	802.3	800.3
52.5°	813.0	811.0	823.1	819.2	820.4	802.8	783.3	762.1	758.5
55°	740.9	745.9	757.3	756.2	755.2	737.2	717.3	695.7	690.7
57.5°	678.8	680.8	688.8	690.4	687.0	675.2	650.9	629.9	624.7
60°	627.1	633.1	644.6	644.5	643.5	628.5	602.5	584.0	577.9
62.5°	579.6	586.4	596.2	598.6	597.6	579.4	557.4	539.7	532.0
65°	510.3	515.3	523.6	528.8	528.8	508.7	485.7	469.2	464.2
67.5°	438.2	444.2	451.9	458.0	455.2	436.5	416.7	401.7	393.3
70°	391.4	397.5	402.7	408.8	406.8	389.8	369.9	353.4	347.4
72.5°	343.9	350.7	355.2	360.4	357.6	340.6	323.2	308.3	300.7
75°	275.7	277.7	283.8	287.9	286.9	269.9	253.1	240.6	232.6
77.5°	208.6	209.4	214.6	216.3	211.5	200.7	187.1	177.3	169.3
80°	166.0	166.0	171.1	172.0	164.0	157.9	144.5	137.1	129.1
82.5°	122.6	123.4	130.1	130.2	123.8	117.0	107.6	99.5	94.7
85°	64.6	65.6	69.7	72.6	65.6	61.6	54.3	46.0	41.0
87.5°	17.2	18.0	23.8	26.9	20.5	20.5	13.1	9.0	7.4
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	0.9	1.3	2.1	8.0	9.0	8.1	7.7
95°	2.1	2.1	3.2	10.1	10.1	16.4	22.4	21.9	21.9
97.5°	4.8	5.3	7.5	30.9	23.1	22.4	32.0	35.3	35.6
100°	6.9	7.5	11.7	50.4	34.2	29.0	34.2	41.7	43.3
102.5°	9.5	10.4	18.6	79.5	48.3	34.7	40.2	45.5	47.1
105°	14.4	16.0	39.0	133.2	73.7	46.0	50.7	53.4	53.9
107.5°	21.7	27.5	106.7	187.4	104.6	60.9	63.7	65.5	66.1
110°	29.4	41.9	185.3	220.0	127.6	72.3	70.5	75.3	74.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	49.4	86.2	272.0	246.9	150.7	85.7	76.9	84.7	85.3
115°	138.3	237.5	363.7	285.0	185.8	109.1	87.0	94.6	97.7
117.5°	347.1	413.0	411.9	320.4	219.6	136.6	99.2	102.8	106.4
120°	466.7	476.6	436.3	344.2	241.4	156.3	109.5	107.9	111.1
122.5°	511.2	503.1	454.7	365.2	263.6	176.8	122.7	113.5	116.2
125°	549.5	533.8	478.5	395.1	296.4	207.1	146.9	125.5	125.0
127.5°	570.8	554.4	501.8	421.0	326.5	238.6	174.3	142.5	137.7
130°	581.0	565.9	518.0	436.9	346.6	259.9	194.4	157.4	150.1
132.5°	593.4	577.0	529.5	453.2	365.8	280.0	214.5	175.3	166.7
135°	605.6	590.4	548.4	474.5	393.0	309.5	243.5	204.8	193.8
137.5°	616.5	602.6	565.7	491.2	417.6	338.5	274.3	236.6	223.2
140°	623.7	608.6	573.0	504.1	432.5	356.8	294.8	257.2	246.7
142.5°	626.3	617.0	580.7	514.9	449.2	374.3	315.3	276.4	266.8
145°	633.9	627.6	590.1	527.9	468.9	400.5	346.6	306.3	295.8
147.5°	638.8	629.4	598.7	541.9	488.1	423.9	375.0	336.3	326.6
150°	639.2	631.9	605.6	550.5	500.9	440.9	392.5	356.0	347.1
152.5°	642.6	633.6	609.0	557.8	510.3	455.3	410.0	376.0	366.3
155°	640.3	634.0	614.1	567.2	524.9	473.8	434.7	404.6	396.2
157.5°	640.3	632.6	614.8	574.5	539.0	494.1	457.8	429.9	423.7
160°	636.0	632.9	615.2	579.7	546.3	505.6	473.1	447.8	439.5
162.5°	634.3	629.1	616.0	583.2	552.7	514.9	486.4	462.4	456.2
165°	626.9	622.2	610.9	584.8	562.8	531.5	505.7	484.3	481.1
167.5°	618.5	614.8	607.4	587.3	569.6	544.0	522.3	505.0	500.7
170°	612.5	606.8	604.0	588.7	573.0	551.6	532.9	517.3	512.6
172.5°	602.3	601.5	599.3	585.4	576.0	558.3	542.8	528.5	525.5
175°	590.1	590.1	591.7	583.1	579.9	565.3	554.3	545.7	541.0
177.5°	576.0	576.4	579.8	579.4	579.8	571.5	568.3	560.2	559.3
180°	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0	573.0

(END OF REPORT)