

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: P522512

Luminaire Tested: **SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522512
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-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 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

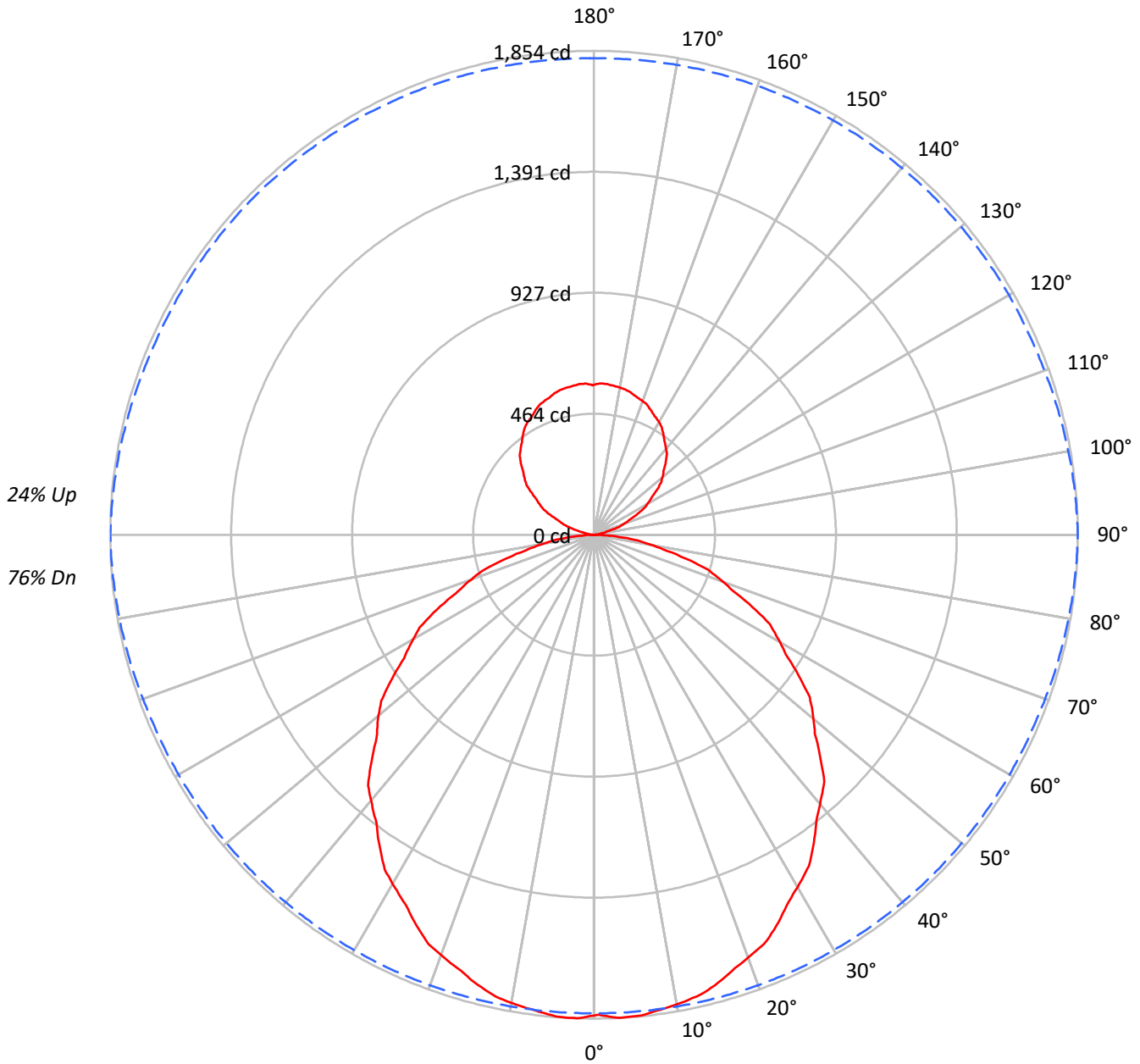
Lumens per Lamp: N/A
Luminaire Lumens: 6730.7 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 72.6
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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	103	99	95	91	98	94	91	87	86	83	80	78	76	74	71	69	68	64
2	94	86	80	74	89	82	76	71	75	70	66	68	65	61	62	59	57	53
3	86	76	68	62	81	72	65	59	66	60	55	60	56	52	55	51	48	45
4	78	67	58	52	74	64	56	50	59	52	47	54	48	44	49	45	41	38
5	72	60	51	45	68	57	49	43	52	46	41	48	43	38	44	39	36	33
6	66	54	45	39	63	51	43	38	47	41	36	43	38	33	40	35	31	29
7	61	48	40	34	58	47	39	33	43	36	31	39	34	30	36	31	28	26
8	57	44	36	30	54	42	35	30	39	33	28	36	31	26	33	29	25	23
9	53	40	32	27	51	39	32	26	36	30	25	33	28	24	31	26	22	20
10	50	37	30	24	47	36	29	24	33	27	23	31	25	22	29	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29699	29699	29699
5°	29778	30011	29512
10°	29737	29921	29316
15°	29666	29787	29137
20°	29421	29562	28770
25°	29081	29282	28260
30°	28715	28924	27777
35°	28377	28600	27187
40°	27883	28207	26673
45°	27375	27773	25971
50°	27000	27336	25380
55°	26337	26767	24518
60°	25578	26176	23560
65°	24627	25524	22353
70°	23363	24189	21045
75°	21734	22501	18983
80°	18484	19535	15816
85°	14042	15191	10819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	2.6
10°-20°	497.0	7.4
20°-30°	747.4	11.1
30°-40°	892.8	13.3
40°-50°	918.2	13.6
50°-60°	826.6	12.3
60°-70°	629.6	9.4
70°-80°	358.9	5.3
80°-90°	93.5	1.4
90°-100°	14.5	0.2
100°-110°	64.2	1.0
110°-120°	184.5	2.7
120°-130°	281.0	4.2
130°-140°	305.0	4.5
140°-150°	291.7	4.3
150°-160°	240.3	3.6
160°-170°	157.2	2.3
170°-180°	54.4	0.8
0°-30°	1418.3	21.1
0°-40°	2311.2	34.3
0°-60°	4056.0	60.3
0°-90°	5138.0	76.3
90°-120°	263.1	3.9
90°-150°	1140.8	16.9
90°-180°	1593.0	23.7
0°-180°	6730.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1839	1839	1839	1839	1839	
5°	1837	1836	1852	1825	1821	174
15°	1775	1775	1782	1752	1743	500
25°	1632	1647	1644	1613	1586	752
35°	1440	1456	1451	1416	1379	899
45°	1199	1214	1216	1172	1137	926
55°	936	947	951	903	871	836
65°	645	657	668	617	585	637
75°	348	356	361	321	304	367
85°	76	88	82	70	58	90
90°	0	0	0	0	0	3
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	



TEST NUMBER: P522512

CATALOG NUMBER: SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1833.6	1837.6	1839.4	1838.1	1854.1	1835.7	1836.1	1831.1	1825.4
5°	1837.3	1835.3	1836.3	1832.6	1851.7	1827.6	1825.0	1819.9	1820.9
7.5°	1825.2	1823.8	1824.6	1819.3	1837.3	1813.1	1811.1	1805.8	1805.4
10°	1813.8	1810.8	1814.8	1807.0	1825.0	1800.0	1796.3	1790.1	1788.1
12.5°	1800.6	1796.8	1801.7	1792.2	1809.5	1782.0	1781.6	1772.9	1771.7
15°	1774.8	1774.8	1774.8	1767.0	1782.0	1753.9	1752.3	1743.1	1743.1
17.5°	1738.5	1739.3	1744.7	1734.3	1746.7	1719.7	1716.2	1705.3	1703.9
20°	1712.3	1712.3	1722.6	1706.5	1720.5	1693.5	1690.8	1673.4	1674.4
22.5°	1681.2	1681.2	1693.9	1679.4	1691.8	1664.8	1661.3	1640.6	1641.6
25°	1632.4	1630.4	1646.7	1632.6	1643.7	1616.6	1612.9	1588.3	1586.3
27.5°	1577.9	1579.7	1595.5	1580.8	1590.8	1561.3	1562.3	1532.9	1529.3
30°	1540.2	1541.2	1558.6	1545.4	1551.4	1524.4	1523.8	1492.0	1489.9
32.5°	1500.8	1501.0	1519.3	1503.7	1512.9	1485.0	1481.1	1450.9	1448.1
35°	1439.7	1438.7	1456.1	1445.0	1451.0	1422.0	1416.2	1388.3	1379.3
37.5°	1370.5	1371.3	1387.7	1381.2	1385.0	1357.2	1345.9	1318.1	1314.7
40°	1322.9	1322.9	1339.3	1335.3	1338.3	1311.2	1298.3	1270.5	1265.5
42.5°	1273.7	1275.3	1290.1	1287.0	1294.0	1264.6	1248.3	1222.1	1215.5
45°	1198.9	1201.9	1214.3	1211.3	1216.3	1191.3	1172.3	1144.5	1137.4
47.5°	1128.2	1125.2	1139.1	1137.3	1139.1	1114.6	1095.6	1066.8	1061.2
50°	1074.9	1071.9	1084.2	1087.3	1088.3	1062.2	1043.2	1014.4	1010.4
52.5°	1020.0	1017.0	1030.1	1034.8	1035.0	1010.5	988.2	961.1	957.1
55°	935.6	930.6	946.8	952.9	950.9	929.9	902.8	879.0	871.0
57.5°	850.3	849.7	863.6	869.1	867.9	847.1	820.2	796.0	787.8
60°	792.1	789.1	805.4	812.6	810.6	790.5	760.3	738.6	729.6
62.5°	733.9	734.1	748.0	754.4	756.5	732.4	704.6	679.7	673.0
65°	644.6	640.5	656.8	663.1	668.1	643.1	616.9	592.1	585.1
67.5°	554.8	551.8	563.0	570.3	574.7	552.2	526.7	506.1	503.1
70°	494.9	491.9	503.1	510.4	512.4	492.3	465.2	448.8	445.8
72.5°	435.9	432.9	441.7	448.9	453.3	431.7	406.2	390.5	383.5
75°	348.4	346.4	355.6	355.7	360.7	339.7	320.7	305.3	304.3
77.5°	261.1	262.5	269.1	269.5	270.7	255.1	240.2	222.8	221.8
80°	198.8	205.8	210.1	212.1	210.1	200.0	184.5	171.1	170.1
82.5°	147.2	152.6	160.9	159.6	156.0	148.3	136.1	123.6	122.6
85°	75.8	80.8	88.1	88.0	82.0	78.0	69.7	59.4	58.4
87.5°	18.0	21.2	28.7	31.0	25.4	26.2	18.0	10.7	10.7
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)