

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: P522510

Luminaire Tested: **SQW-F-025U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522510
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

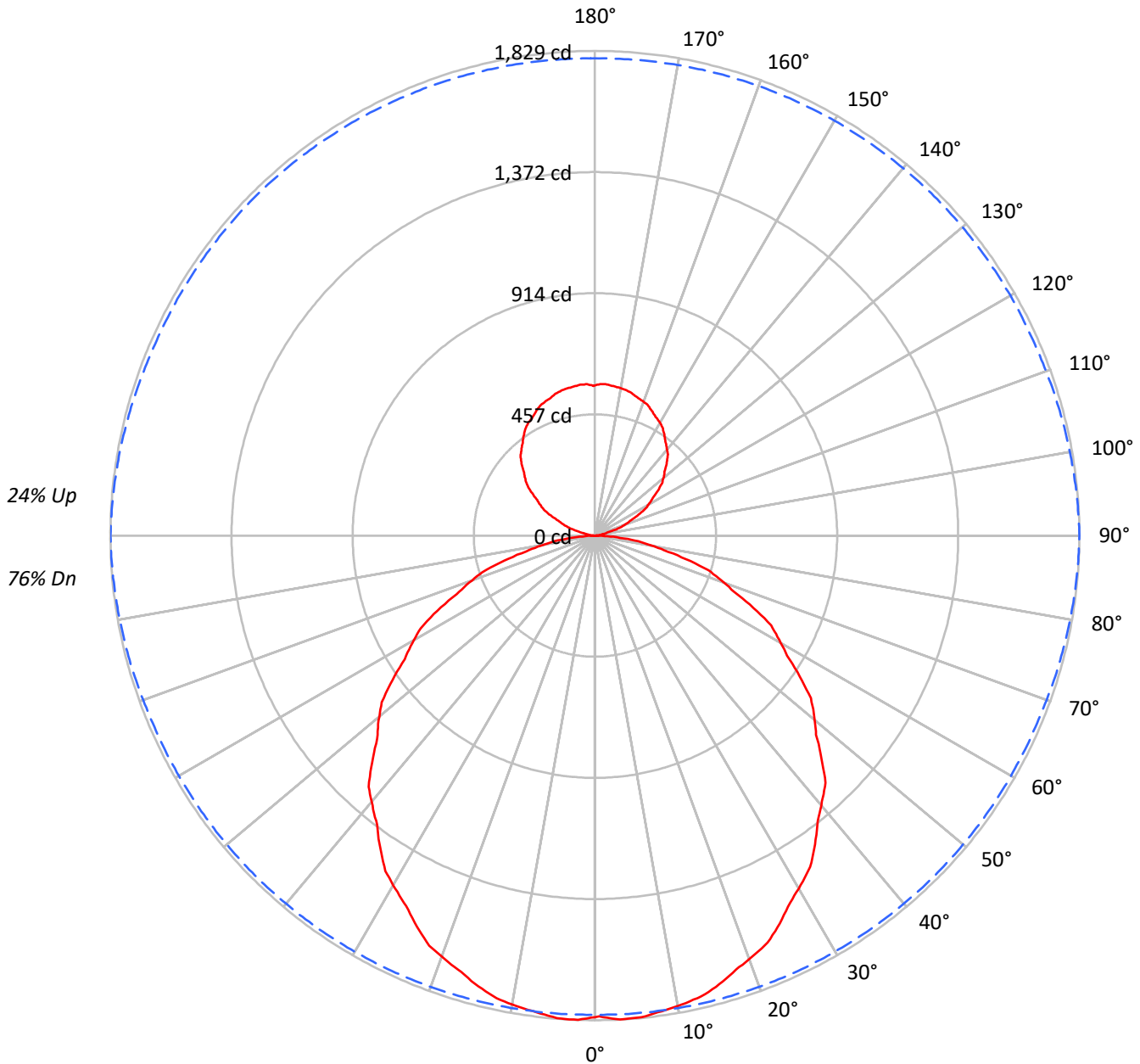
Lumens per Lamp: N/A
Luminaire Lumens: 6638.2 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 72.7
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°	29290	29290	29290
5°	29370	29598	29107
10°	29327	29511	28914
15°	29259	29377	28735
20°	29017	29156	28374
25°	28682	28880	27872
30°	28320	28527	27397
35°	27989	28208	26812
40°	27499	27819	26306
45°	27001	27391	25615
50°	26631	26960	25031
55°	25973	26401	24180
60°	25226	25814	23237
65°	24286	25173	22048
70°	23042	23854	20752
75°	21435	22190	18727
80°	18233	19265	15602
85°	13857	14987	10671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	2.6
10°-20°	490.2	7.4
20°-30°	737.1	11.1
30°-40°	880.5	13.3
40°-50°	905.6	13.6
50°-60°	815.3	12.3
60°-70°	621.0	9.4
70°-80°	354.0	5.3
80°-90°	92.2	1.4
90°-100°	14.3	0.2
100°-110°	63.3	1.0
110°-120°	181.9	2.7
120°-130°	277.1	4.2
130°-140°	300.8	4.5
140°-150°	287.6	4.3
150°-160°	237.0	3.6
160°-170°	155.1	2.3
170°-180°	53.7	0.8
0°-30°	1398.9	21.1
0°-40°	2279.4	34.3
0°-60°	4000.3	60.3
0°-90°	5067.4	76.3
90°-120°	259.5	3.9
90°-150°	1125.1	16.9
90°-180°	1571.0	23.7
0°-180°	6638.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1814	1814	1814	1814	1814	
5°	1812	1811	1826	1800	1796	172
15°	1750	1750	1758	1728	1719	493
25°	1610	1624	1621	1591	1564	741
35°	1420	1436	1431	1397	1360	887
45°	1182	1198	1200	1156	1122	914
55°	923	934	938	890	859	825
65°	636	648	659	608	577	629
75°	344	351	356	316	300	362
85°	75	87	81	69	58	89
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1	1814.1
2.5°	1808.4	1812.4	1814.1	1812.8	1828.7	1810.5	1810.9	1805.9	1800.4
5°	1812.1	1810.1	1811.1	1807.5	1826.2	1802.5	1800.0	1794.9	1795.9
7.5°	1800.2	1798.8	1799.5	1794.3	1812.1	1788.2	1786.2	1780.9	1780.5
10°	1788.8	1785.9	1789.8	1782.2	1800.0	1775.2	1771.7	1765.5	1763.6
12.5°	1775.9	1772.1	1776.9	1767.6	1784.6	1757.5	1757.1	1748.6	1747.4
15°	1750.4	1750.4	1750.4	1742.7	1757.5	1729.8	1728.2	1719.1	1719.1
17.5°	1714.7	1715.4	1720.7	1710.5	1722.7	1696.1	1692.6	1681.9	1680.5
20°	1688.8	1688.8	1698.9	1683.0	1696.9	1670.2	1667.6	1650.4	1651.4
22.5°	1658.1	1658.1	1670.6	1656.3	1668.6	1641.9	1638.5	1618.1	1619.0
25°	1610.0	1608.0	1624.1	1610.2	1621.1	1594.4	1590.8	1566.4	1564.5
27.5°	1556.2	1558.0	1573.6	1559.0	1568.9	1539.9	1540.8	1511.8	1508.3
30°	1519.0	1520.0	1537.2	1524.2	1530.1	1503.4	1502.8	1471.4	1469.5
32.5°	1480.2	1480.4	1498.4	1483.0	1492.1	1464.6	1460.8	1431.0	1428.2
35°	1420.0	1419.0	1436.1	1425.1	1431.1	1402.4	1396.7	1369.2	1360.3
37.5°	1351.6	1352.4	1368.6	1362.2	1366.0	1338.5	1327.4	1300.0	1296.7
40°	1304.7	1304.7	1320.9	1316.9	1319.9	1293.2	1280.5	1253.1	1248.1
42.5°	1256.2	1257.8	1272.4	1269.3	1276.2	1247.2	1231.2	1205.3	1198.8
45°	1182.5	1185.4	1197.6	1194.7	1199.6	1174.9	1156.2	1128.7	1121.8
47.5°	1112.7	1109.8	1123.4	1121.7	1123.4	1099.3	1080.6	1052.2	1046.6
50°	1060.2	1057.2	1069.3	1072.3	1073.3	1047.6	1028.8	1000.4	996.5
52.5°	1006.0	1003.0	1015.9	1020.6	1020.7	996.6	974.7	947.9	943.9
55°	922.7	917.8	933.8	939.9	937.9	917.1	890.4	867.0	859.0
57.5°	838.6	838.0	851.8	857.2	856.0	835.5	808.9	785.1	777.0
60°	781.2	778.3	794.4	801.4	799.4	779.7	749.9	728.5	719.6
62.5°	723.8	724.0	737.8	744.1	746.1	722.3	694.9	670.3	663.8
65°	635.7	631.7	647.8	654.0	658.9	634.2	608.4	584.0	577.1
67.5°	547.2	544.2	555.2	562.4	566.8	544.6	519.5	499.2	496.2
70°	488.1	485.2	496.2	503.3	505.3	485.6	458.8	442.6	439.6
72.5°	429.9	427.0	435.6	442.8	447.1	425.8	400.6	385.1	378.2
75°	343.6	341.6	350.7	350.8	355.7	335.0	316.3	301.1	300.2
77.5°	257.5	258.9	265.4	265.8	267.0	251.6	236.9	219.7	218.7
80°	196.1	203.0	207.2	209.2	207.2	197.3	181.9	168.8	167.8
82.5°	145.1	150.5	158.7	157.4	153.8	146.3	134.2	121.9	120.9
85°	74.8	79.7	86.9	86.8	80.9	76.9	68.7	58.6	57.6
87.5°	17.8	20.9	28.3	30.6	25.1	25.9	17.8	10.5	10.5
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)