

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: P522610

Luminaire Tested: **SQW-F-100U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522610
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-100U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

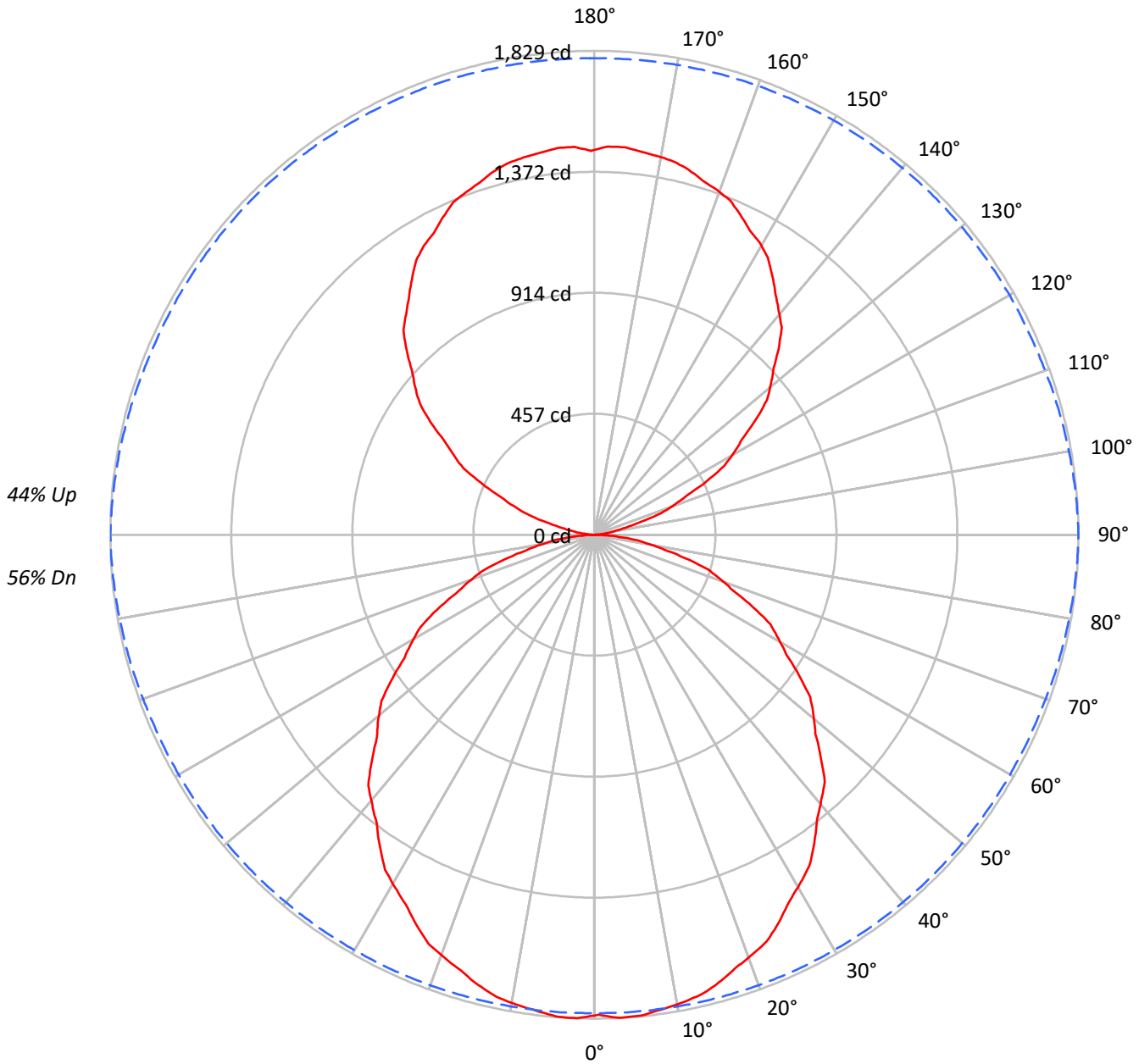
Lumens per Lamp: N/A
Luminaire Lumens: 9099.5 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.5
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56	
	1	99	94	91	87	92	88	84	81	76	73	71	64	63	61	54	53	52	47	
	2	90	82	76	71	83	77	71	67	66	62	58	56	53	51	47	45	43	39	
	3	82	72	65	59	76	67	61	55	58	53	49	50	46	43	42	39	37	33	
	4	75	64	56	50	69	60	52	47	52	46	42	44	40	36	37	34	31	28	
	5	69	57	49	42	64	53	46	40	46	40	36	40	35	31	33	30	27	24	
	6	63	51	43	37	59	48	40	35	42	36	31	36	31	27	30	27	24	21	
	7	58	46	38	32	54	43	36	31	38	32	27	32	28	24	28	24	21	19	
	8	54	42	34	28	50	39	32	27	34	28	24	30	25	22	25	22	19	17	
	9	51	38	30	25	47	36	29	24	31	26	22	27	23	19	23	20	17	15	
	10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	22	18	15	14	

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	1.9
10°-20°	490.2	5.4
20°-30°	737.1	8.1
30°-40°	880.5	9.7
40°-50°	905.6	10.0
50°-60°	815.3	9.0
60°-70°	621.0	6.8
70°-80°	354.0	3.9
80°-90°	92.2	1.0
90°-100°	36.6	0.4
100°-110°	162.5	1.8
110°-120°	467.0	5.1
120°-130°	711.3	7.8
130°-140°	772.1	8.5
140°-150°	738.4	8.1
150°-160°	608.3	6.7
160°-170°	398.1	4.4
170°-180°	137.8	1.5
0°-30°	1398.9	15.4
0°-40°	2279.4	25.0
0°-60°	4000.3	44.0
0°-90°	5067.4	55.7
90°-120°	666.1	7.3
90°-150°	2888.0	31.7
90°-180°	4032.0	44.3
0°-180°	9099.5	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	3
95°	5	8	26	57	55	7
105°	36	99	187	128	136	42
115°	350	921	470	220	247	484
125°	1391	1211	750	372	316	1221
135°	1533	1388	995	616	491	1184
145°	1605	1494	1187	877	749	1005
155°	1621	1555	1329	1100	1003	750
165°	1587	1547	1425	1280	1218	450
175°	1494	1498	1468	1403	1370	144
180°	1451	1451	1451	1451	1451	



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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°	1.1	1.1	2.2	3.3	5.4	20.2	22.7	20.5	19.5
95°	5.4	5.4	8.1	25.7	25.7	41.5	56.8	55.4	55.4
97.5°	12.2	13.5	18.9	78.2	58.4	56.8	81.1	89.2	90.0
100°	17.6	18.9	29.7	127.5	86.5	73.3	86.5	105.5	109.5
102.5°	24.1	26.4	47.0	201.3	122.2	87.8	101.7	115.3	119.2
105°	36.5	40.5	98.7	337.3	186.6	116.5	128.4	135.2	136.5
107.5°	54.9	69.7	270.1	474.4	264.7	154.2	161.1	165.8	167.4
110°	74.4	106.1	469.1	557.1	323.1	183.0	178.5	190.6	187.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	125.2	218.2	688.7	625.0	381.5	217.1	194.7	214.5	216.0
115°	350.1	601.3	920.7	721.6	470.5	276.2	220.4	239.5	247.4
117.5°	878.8	1045.6	1042.9	811.0	555.9	345.7	251.2	260.3	269.3
120°	1181.6	1206.7	1104.5	871.5	611.1	395.6	277.1	273.3	281.2
122.5°	1294.1	1273.7	1151.0	924.5	667.3	447.6	310.7	287.3	294.2
125°	1391.1	1351.5	1211.3	1000.2	750.3	524.3	371.8	317.7	316.4
127.5°	1444.9	1403.4	1270.3	1065.8	826.6	604.0	441.3	360.7	348.5
130°	1470.9	1432.6	1311.4	1106.1	877.4	658.0	492.1	398.4	379.9
132.5°	1502.3	1460.8	1340.6	1147.4	926.1	708.8	542.9	443.7	422.1
135°	1533.1	1494.7	1388.4	1201.2	995.0	783.5	616.5	518.5	490.7
137.5°	1560.7	1525.5	1432.2	1243.6	1057.2	857.1	694.3	598.9	565.1
140°	1579.0	1540.7	1450.6	1276.2	1095.1	903.4	746.3	651.0	624.6
142.5°	1585.5	1562.0	1470.1	1303.5	1137.2	947.7	798.2	699.7	675.4
145°	1604.7	1588.9	1493.9	1336.4	1187.0	1013.8	877.4	775.4	749.0
147.5°	1617.2	1593.4	1515.8	1371.8	1235.7	1073.1	949.3	851.4	826.8
150°	1618.3	1599.7	1533.1	1393.7	1268.1	1116.1	993.7	901.2	878.8
152.5°	1626.9	1604.2	1541.7	1412.2	1291.9	1152.6	1038.0	952.0	927.4
155°	1621.0	1605.1	1554.7	1436.0	1328.9	1199.4	1100.5	1024.3	1003.1
157.5°	1621.0	1601.4	1556.3	1454.5	1364.6	1251.0	1158.9	1088.5	1072.6
160°	1610.1	1602.2	1557.4	1467.6	1383.0	1279.9	1197.8	1133.8	1112.6
162.5°	1605.8	1592.6	1559.6	1476.4	1399.2	1303.5	1231.3	1170.7	1154.8
165°	1587.2	1575.3	1546.6	1480.4	1424.9	1345.6	1280.3	1226.0	1218.1
167.5°	1565.8	1556.5	1537.7	1486.9	1442.0	1377.2	1322.2	1278.4	1267.6
170°	1550.7	1536.1	1529.0	1490.3	1450.6	1396.4	1349.2	1309.7	1297.8
172.5°	1524.7	1522.8	1517.1	1482.0	1458.2	1413.5	1374.1	1338.0	1330.3
175°	1493.9	1493.9	1497.9	1476.1	1468.2	1431.2	1403.3	1381.4	1369.5
177.5°	1458.2	1459.2	1467.9	1466.9	1467.9	1446.8	1438.7	1418.1	1416.0
180°	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6	1450.6

(END OF REPORT)