

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1313721

Luminaire Tested: LDSQA3D13R509727DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R509727DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

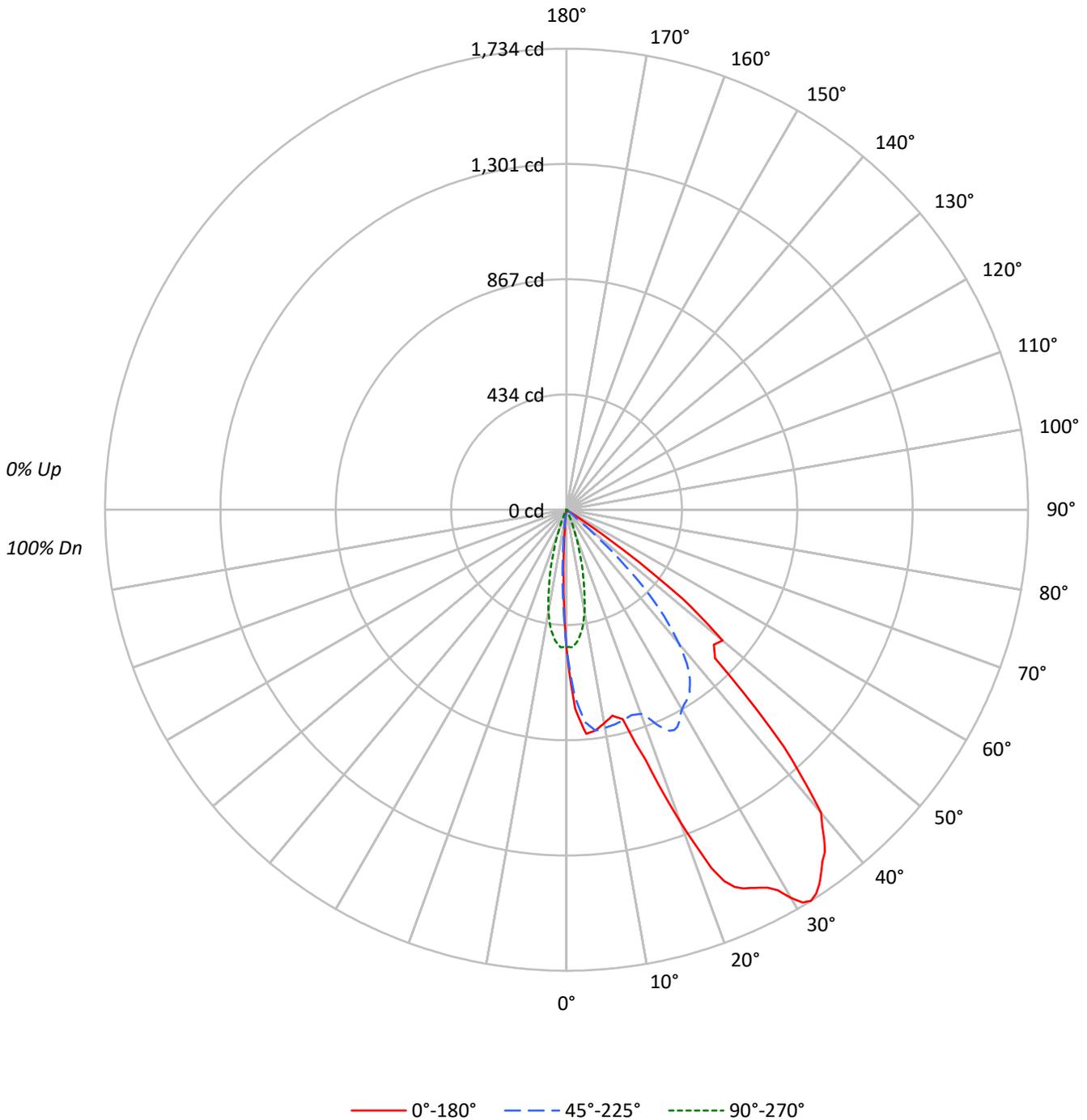
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 830.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (A_{in}): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	88746	88746	88746	88746	88746
5°	146240	138771	85299	25327	12672
10°	142509	145640	68343	1277	1714
15°	145295	146169	40937	1302	428
20°	229039	149663	16861	0	0
25°	298570	174349	4029	0	0
30°	335128	172416	159	0	0
35°	350710	169794	0	0	0
40°	334578	147527	0	0	0
45°	192144	97351	0	0	0
50°	205047	11119	0	0	0
55°	58431	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	403	0	0
75°	0	532	532	0	0
80°	0	793	1587	793	0
85°	0	1581	3162	1581	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 212165 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	5.2
10°-20°	109.0	13.1
20°-30°	209.5	25.2
30°-40°	243.8	29.4
40°-50°	174.5	21.0
50°-60°	48.6	5.9
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	361.8	43.6
0°-40°	605.5	73.0
0°-60°	828.6	99.8
0°-90°	830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	830.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	515	515	515	515	515	
5°	846	803	493	146	73	78
15°	815	820	230	7	2	263
25°	1571	918	21	0	0	715
35°	1668	808	0	0	0	1032
45°	789	400	0	0	0	742
55°	195	0	0	0	0	245
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	515.3	515.3	515.3	515.3	515.3	515.3	515.3	515.3	515.3	515.3	515.3
2.5°	749.0	753.1	753.9	744.1	745.7	731.9	732.7	722.9	699.3	617.1	517.8
5°	845.9	843.4	845.9	842.6	845.9	837.7	832.8	828.8	802.7	686.3	493.4
7.5°	836.9	833.6	838.5	840.2	845.9	843.4	844.2	846.7	837.7	723.7	451.8
10°	814.9	814.1	816.6	816.6	823.1	823.9	827.1	832.0	832.8	736.8	390.8
12.5°	793.8	791.3	791.3	790.5	793.8	792.9	801.1	812.5	828.0	728.6	306.9
15°	814.9	812.5	809.2	800.3	793.8	786.4	787.2	794.6	819.8	707.5	229.6
17.5°	985.9	972.9	956.6	928.1	898.0	845.9	814.9	795.4	810.0	674.9	153.1
20°	1249.7	1244.0	1217.9	1171.5	1122.7	1046.1	950.9	874.4	816.6	634.2	92.0
21°	1349.8	1346.5	1318.9	1275.7	1220.4	1127.5	1029.9	937.9	829.6	617.1	72.5
22°	1452.4	1440.2	1418.2	1370.1	1312.3	1219.5	1110.4	1008.7	855.6	595.1	55.4
23°	1518.3	1511.0	1487.4	1449.1	1393.8	1303.4	1191.9	1081.1	880.9	570.7	41.5
24°	1552.5	1550.1	1531.3	1504.5	1457.3	1365.3	1259.4	1145.5	902.0	542.2	30.1
25°	1571.2	1563.1	1551.7	1532.2	1496.3	1416.6	1322.1	1201.6	917.5	513.7	21.2
26°	1582.6	1577.7	1559.8	1542.7	1508.5	1443.4	1362.8	1235.8	921.6	478.7	14.7
27°	1595.7	1584.3	1567.2	1546.8	1508.5	1451.6	1378.3	1250.5	916.7	442.9	9.8
28°	1609.5	1601.4	1577.7	1551.7	1506.1	1451.6	1372.6	1230.9	902.0	408.7	5.7
29°	1636.4	1625.8	1596.5	1558.2	1506.9	1449.9	1350.6	1190.2	882.5	370.4	3.3
30°	1685.2	1663.2	1627.4	1573.7	1512.6	1446.7	1314.0	1129.2	867.0	327.3	0.8
31°	1723.5	1711.3	1669.7	1602.2	1528.9	1437.7	1270.8	1068.9	856.4	289.8	0.0
32°	1734.1	1725.1	1695.0	1631.5	1556.6	1430.4	1222.0	1010.3	848.3	248.3	0.0
33°	1721.8	1716.1	1684.4	1626.6	1563.9	1420.6	1165.8	952.5	839.3	210.9	0.0
34°	1699.0	1691.7	1664.0	1605.4	1545.2	1378.3	1112.1	908.5	826.3	175.8	0.0
35°	1668.1	1662.4	1633.9	1576.1	1511.0	1312.3	1058.3	879.2	807.6	140.8	0.0
36°	1634.7	1633.1	1596.5	1539.5	1467.0	1248.8	993.2	857.3	788.9	111.5	0.0
37°	1612.8	1604.6	1564.7	1508.5	1414.9	1174.8	941.1	849.9	762.8	86.3	0.0
38°	1572.9	1574.5	1528.9	1477.6	1362.0	1110.4	898.8	844.2	733.5	62.7	0.0
39°	1525.6	1526.5	1479.2	1435.3	1299.3	1042.9	863.8	838.5	696.9	39.9	0.0
40°	1488.2	1487.4	1433.6	1386.4	1231.7	979.4	845.0	830.4	656.2	22.8	0.0
42.5°	1209.8	1214.7	1221.2	1240.7	1073.0	867.8	827.1	784.8	540.6	0.0	0.0
45°	788.9	807.6	812.5	871.1	870.3	822.3	784.8	703.4	399.7	0.0	0.0
47.5°	750.6	756.3	766.9	789.7	801.9	778.3	701.8	587.8	218.2	0.0	0.0
50°	765.3	764.5	766.9	766.9	744.9	683.9	575.6	433.9	41.5	0.0	0.0
52.5°	549.5	569.9	591.9	601.6	573.1	508.8	420.1	254.8	0.0	0.0	0.0
55°	194.6	188.1	183.2	200.3	196.2	220.6	182.4	59.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	3.3	7.3	9.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	515.3	515.3	515.3	515.3
2.5°	412.8	316.7	256.4	260.5
5°	289.8	146.5	90.4	73.3
7.5°	173.4	44.8	9.0	7.3
10°	81.4	7.3	8.1	9.8
12.5°	24.4	6.5	9.0	8.1
15°	6.5	7.3	4.1	2.4
17.5°	2.4	3.3	0.0	0.0
20°	1.6	0.0	0.0	0.0
21°	1.6	0.0	0.0	0.0
22°	0.8	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0
72.5°	0.8	0.0	0.0	0.0
75°	0.8	0.0	0.0	0.0
77.5°	0.8	0.0	0.0	0.0
80°	0.8	0.8	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.8	0.8	0.0	0.0
85°	0.8	0.8	0.0	0.0
87.5°	0.8	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)