

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: P1312435

Luminaire Tested: LDSQA3D09R509050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312435
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: LDSQA3D09R509050DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

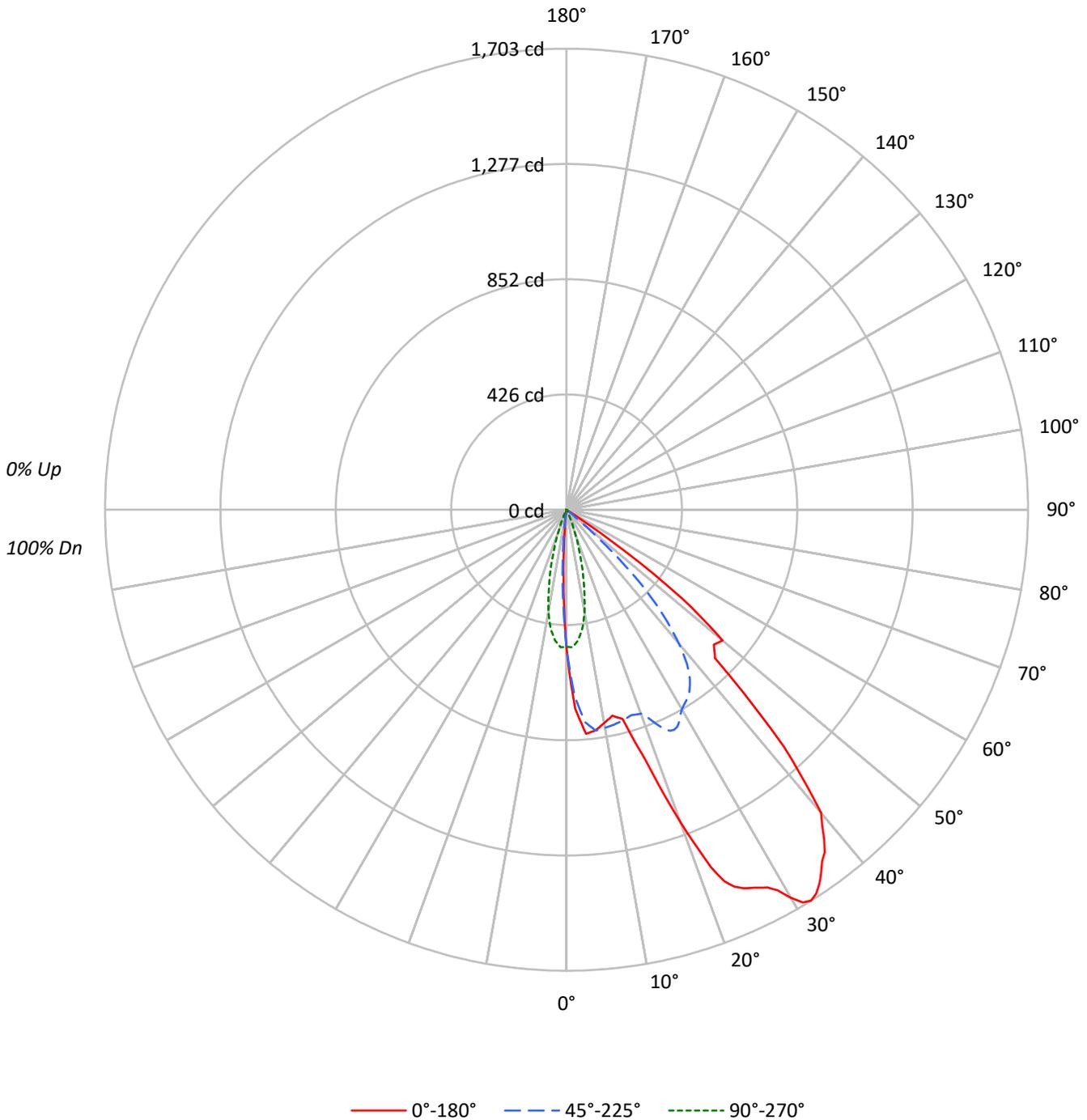
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 815.0 lumens
Efficiency: N/A
Efficacy: 73.4 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): 11.1
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°	87145	87145	87145	87145	87145
5°	143595	136264	83743	24878	12430
10°	139939	143016	67101	1259	1679
15°	142674	143530	40188	1284	428
20°	224897	146950	16550	0	0
25°	293173	171195	3953	0	0
30°	329083	169314	159	0	0
35°	344381	166724	0	0	0
40°	328530	144852	0	0	0
45°	188661	95597	0	0	0
50°	201323	10932	0	0	0
55°	57380	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: 208341 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	5.2
10°-20°	107.1	13.1
20°-30°	205.7	25.2
30°-40°	239.4	29.4
40°-50°	171.3	21.0
50°-60°	47.7	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°	355.2	43.6
0°-40°	594.6	73.0
0°-60°	813.6	99.8
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	506	506	506	506	506	
5°	831	788	484	144	72	76
15°	800	805	225	7	2	258
25°	1543	901	21	0	0	702
35°	1638	793	0	0	0	1013
45°	775	392	0	0	0	728
55°	191	0	0	0	0	241
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°	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0	506.0
2.5°	735.4	739.4	740.2	730.6	732.2	718.7	719.5	709.9	686.7	605.9	508.4
5°	830.6	828.2	830.6	827.4	830.6	822.6	817.8	813.8	788.2	673.9	484.4
7.5°	821.8	818.6	823.4	825.0	830.6	828.2	829.0	831.4	822.6	710.7	443.7
10°	800.2	799.4	801.8	801.8	808.2	809.0	812.2	817.0	817.8	723.5	383.7
12.5°	779.4	777.0	777.0	776.2	779.4	778.6	786.6	797.8	813.0	715.5	301.4
15°	800.2	797.8	794.6	785.8	779.4	772.2	773.0	780.2	805.0	694.7	225.4
17.5°	968.1	955.3	939.3	911.3	881.7	830.6	800.2	781.0	795.4	662.7	150.3
20°	1227.1	1221.5	1195.9	1150.3	1102.4	1027.2	933.7	858.6	801.8	622.7	90.3
21°	1325.4	1322.2	1295.0	1252.7	1198.3	1107.2	1011.2	920.9	814.6	605.9	71.1
22°	1426.1	1414.1	1392.6	1345.4	1288.6	1197.5	1090.4	990.5	840.2	584.4	54.4
23°	1490.9	1483.7	1460.5	1422.9	1368.6	1279.8	1170.3	1061.6	864.9	560.4	40.8
24°	1524.5	1522.1	1503.7	1477.3	1430.9	1340.6	1236.7	1124.8	885.7	532.4	29.6
25°	1542.8	1534.8	1523.7	1504.5	1469.3	1391.0	1298.2	1179.9	900.9	504.4	20.8
26°	1554.0	1549.2	1531.6	1514.9	1481.3	1417.3	1338.2	1213.5	904.9	470.0	14.4
27°	1566.8	1555.6	1538.8	1518.9	1481.3	1425.3	1353.4	1227.9	900.1	434.9	9.6
28°	1580.4	1572.4	1549.2	1523.7	1478.9	1425.3	1347.8	1208.7	885.7	401.3	5.6
29°	1606.8	1596.4	1567.6	1530.0	1479.7	1423.7	1326.2	1168.7	866.5	363.7	3.2
30°	1654.8	1633.2	1598.0	1545.2	1485.3	1420.5	1290.2	1108.8	851.4	321.4	0.8
31°	1692.3	1680.3	1639.6	1573.2	1501.3	1411.7	1247.9	1049.6	841.0	284.6	0.0
32°	1702.7	1693.9	1664.3	1602.0	1528.4	1404.5	1199.9	992.1	833.0	243.8	0.0
33°	1690.7	1685.1	1654.0	1597.2	1535.6	1394.9	1144.7	935.3	824.2	207.0	0.0
34°	1668.3	1661.1	1634.0	1576.4	1517.3	1353.4	1092.0	892.1	811.4	172.7	0.0
35°	1638.0	1632.4	1604.4	1547.6	1483.7	1288.6	1039.2	863.3	793.0	138.3	0.0
36°	1605.2	1603.6	1567.6	1511.7	1440.5	1226.3	975.3	841.8	774.6	109.5	0.0
37°	1583.6	1575.6	1536.4	1481.3	1389.4	1153.5	924.1	834.6	749.0	84.7	0.0
38°	1544.4	1546.0	1501.3	1450.9	1337.4	1090.4	882.5	829.0	720.3	61.6	0.0
39°	1498.1	1498.9	1452.5	1409.3	1275.8	1024.0	848.2	823.4	684.3	39.2	0.0
40°	1461.3	1460.5	1407.7	1361.4	1209.5	961.7	829.8	815.4	644.3	22.4	0.0
42.5°	1187.9	1192.7	1199.1	1218.3	1053.6	852.2	812.2	770.6	530.8	0.0	0.0
45°	774.6	793.0	797.8	855.4	854.6	807.4	770.6	690.7	392.5	0.0	0.0
47.5°	737.0	742.6	753.0	775.4	787.4	764.2	689.1	577.2	214.2	0.0	0.0
50°	751.4	750.6	753.0	753.0	731.4	671.5	565.2	426.1	40.8	0.0	0.0
52.5°	539.6	559.6	581.2	590.8	562.8	499.6	412.5	250.2	0.0	0.0	0.0
55°	191.1	184.7	179.9	196.7	192.7	216.6	179.1	58.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	3.2	7.2	9.6	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°	506.0	506.0	506.0	506.0
2.5°	405.3	311.0	251.8	255.8
5°	284.6	143.9	88.7	71.9
7.5°	170.3	44.0	8.8	7.2
10°	79.9	7.2	8.0	9.6
12.5°	24.0	6.4	8.8	8.0
15°	6.4	7.2	4.0	2.4
17.5°	2.4	3.2	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)