

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: P1319614

Luminaire Tested: LDSQA3D02R159840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R159840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

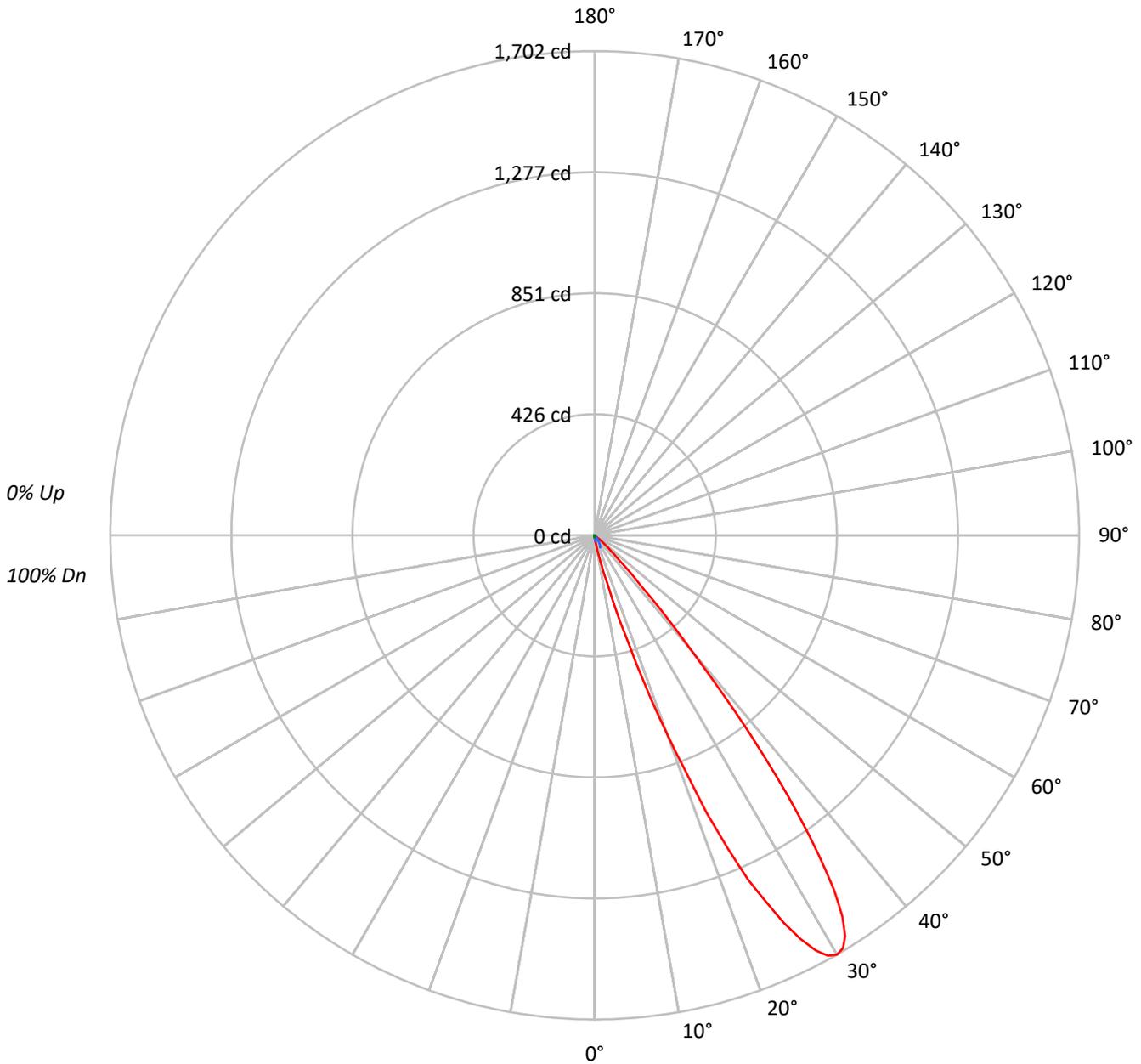
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 180.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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

TEST NUMBER: P1319614
CATALOG NUMBER: LDSQA3D02R159840DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1319614

CATALOG NUMBER: LDSQA3D02R159840DE010 3LSQCA30R 1MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	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°	1102	1102	1102	1102	1102
5°	3198	2420	951	398	259
10°	8342	3603	630	0	0
15°	33342	5902	339	0	0
20°	136229	8706	110	0	0
25°	269287	8627	0	0	0
30°	338469	6821	0	0	0
35°	288793	4184	0	0	0
40°	118885	1326	0	0	0
45°	25720	560	0	0	0
50°	3296	0	0	0	0
55°	270	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	302	0	0
75°	0	133	399	0	0
80°	0	198	595	0	0
85°	0	395	1186	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 26913 cd/sqm



TEST NUMBER: P1319614

CATALOG NUMBER: LDSQA3D02R159840DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	12.6	7.0
20°-30°	73.5	40.8
30°-40°	78.8	43.8
40°-50°	13.3	7.4
50°-60°	0.4	0.2
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	87.0	48.3
0°-40°	165.8	92.1
0°-60°	179.6	99.7
0°-90°	180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	180.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	18	14	6	2	2	3
15°	187	33	2	0	0	87
25°	1417	45	0	0	0	641
35°	1374	20	0	0	0	789
45°	106	2	0	0	0	125
55°	1	0	0	0	0	2
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1319614
 CATALOG NUMBER: LDSQA3D02R159840DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	11.7	11.9	12.1	12.1	12.1	12.1	11.9	11.9	11.9	11.9	11.7
5°	18.5	18.5	18.5	18.5	18.5	18.5	18.4	18.4	18.4	18.4	18.4
7.5°	26.5	26.1	26.3	25.7	26.1	25.9	25.7	26.1	26.1	25.2	25.2
10°	47.7	47.5	45.6	46.0	46.4	46.2	46.2	45.0	44.9	44.1	43.3
12.5°	92.0	94.1	95.6	95.6	92.0	93.3	90.9	91.4	91.8	90.7	86.7
15°	187.0	190.4	186.8	190.2	188.9	184.0	178.5	171.1	173.9	168.8	167.1
17.5°	409.6	417.4	414.1	398.4	403.5	391.4	383.9	381.0	373.1	349.4	339.6
20°	743.3	752.8	743.9	725.5	731.4	708.5	702.6	697.1	661.9	649.0	607.8
21°	883.7	891.5	894.9	875.8	864.1	845.9	830.7	825.8	804.4	779.6	737.2
22°	1053.3	1044.3	1023.8	1026.5	1009.1	994.1	973.1	953.2	929.4	894.7	859.7
23°	1193.8	1183.2	1173.5	1161.8	1143.1	1132.5	1102.4	1080.6	1049.6	1012.5	978.8
24°	1324.6	1308.3	1302.2	1281.4	1276.1	1252.3	1227.9	1199.5	1162.0	1122.4	1085.1
25°	1417.1	1419.6	1414.3	1411.8	1384.8	1360.4	1336.1	1292.4	1260.4	1225.4	1168.0
26°	1516.3	1517.5	1514.8	1496.6	1472.2	1448.4	1417.1	1379.1	1332.7	1293.9	1242.1
27°	1592.2	1587.7	1583.9	1562.3	1542.3	1512.2	1483.8	1438.7	1393.5	1347.3	1287.1
28°	1652.8	1644.3	1639.5	1621.0	1597.5	1560.6	1525.8	1483.8	1438.5	1388.9	1323.8
29°	1689.3	1680.2	1674.9	1654.5	1627.4	1595.1	1559.9	1513.7	1465.0	1409.8	1344.3
30°	1702.0	1696.7	1688.4	1667.2	1639.2	1605.5	1569.3	1519.2	1468.2	1411.6	1342.4
31°	1693.7	1686.9	1678.9	1656.0	1625.7	1593.5	1551.5	1498.9	1445.3	1391.4	1318.0
32°	1660.6	1656.4	1646.7	1616.1	1591.5	1549.8	1508.4	1459.2	1400.7	1342.8	1276.3
33°	1598.5	1591.7	1583.3	1555.3	1523.9	1484.0	1442.7	1392.3	1334.2	1273.1	1200.0
34°	1503.8	1495.1	1484.7	1466.0	1425.8	1391.2	1343.5	1284.6	1236.6	1177.9	1111.8
35°	1373.6	1360.9	1348.4	1334.2	1289.2	1257.2	1225.0	1173.7	1127.4	1072.1	997.3
36°	1227.5	1222.6	1212.3	1174.9	1160.3	1116.8	1090.8	1032.0	994.5	940.3	878.6
37°	1062.2	1033.3	1048.0	1027.0	983.1	969.5	938.6	888.1	847.6	790.4	745.8
38°	885.1	866.1	876.6	855.4	832.5	801.0	777.6	740.7	695.2	650.4	608.0
39°	701.5	686.1	697.5	683.1	648.3	635.2	614.4	586.2	549.7	514.7	474.5
40°	528.8	509.2	524.3	503.9	488.0	466.6	456.0	430.0	407.3	386.3	360.8
42.5°	241.5	239.4	236.0	228.6	226.9	227.1	214.1	205.6	194.0	180.6	172.4
45°	105.6	108.3	110.5	106.4	106.2	103.9	103.2	97.5	95.2	90.9	85.6
47.5°	52.1	53.0	52.4	53.6	52.6	51.1	50.7	50.0	47.7	47.5	45.0
50°	12.3	12.1	12.1	12.3	12.1	12.1	11.9	11.5	11.4	11.5	11.0
52.5°	4.0	4.2	4.0	3.8	4.0	4.2	4.0	4.0	4.0	4.0	4.0
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.9	0.9	0.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1319614

CATALOG NUMBER: LDSQA3D02R159840DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1319614
 CATALOG NUMBER: LDSQA3D02R159840DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
2.5°	11.5	9.8	8.1	6.4	4.7	3.8	3.6	3.4
5°	17.4	14.0	9.3	5.5	3.2	2.3	1.7	1.5
7.5°	23.5	17.4	10.2	4.5	2.3	0.9	0.4	0.2
10°	33.7	20.6	10.6	3.6	1.1	0.0	0.0	0.0
12.5°	66.1	23.7	10.4	2.8	0.2	0.0	0.0	0.0
15°	109.8	33.1	9.7	1.9	0.0	0.0	0.0	0.0
17.5°	179.8	42.8	8.3	1.3	0.0	0.0	0.0	0.0
20°	278.8	47.5	6.4	0.6	0.0	0.0	0.0	0.0
21°	326.9	47.9	5.7	0.4	0.0	0.0	0.0	0.0
22°	368.5	47.9	4.9	0.2	0.0	0.0	0.0	0.0
23°	407.1	47.3	4.4	0.0	0.0	0.0	0.0	0.0
24°	438.9	46.6	4.0	0.0	0.0	0.0	0.0	0.0
25°	462.8	45.4	3.6	0.0	0.0	0.0	0.0	0.0
26°	473.8	43.9	3.0	0.0	0.0	0.0	0.0	0.0
27°	479.3	41.8	2.6	0.0	0.0	0.0	0.0	0.0
28°	475.5	39.6	2.3	0.0	0.0	0.0	0.0	0.0
29°	466.0	37.1	1.7	0.0	0.0	0.0	0.0	0.0
30°	453.7	34.3	1.3	0.0	0.0	0.0	0.0	0.0
31°	435.7	31.4	0.9	0.0	0.0	0.0	0.0	0.0
32°	411.1	28.6	0.8	0.0	0.0	0.0	0.0	0.0
33°	378.2	25.6	0.4	0.0	0.0	0.0	0.0	0.0
34°	337.5	22.5	0.2	0.0	0.0	0.0	0.0	0.0
35°	291.9	19.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	252.7	17.0	0.0	0.0	0.0	0.0	0.0	0.0
37°	213.3	13.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	178.7	10.8	0.0	0.0	0.0	0.0	0.0	0.0
39°	147.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	122.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	67.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	41.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	23.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.4	0.6	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0



TEST NUMBER: P1319614

CATALOG NUMBER: LDSQA3D02R159840DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.6	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)