

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: P1316646

Luminaire Tested: LDSQA3D13R559740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

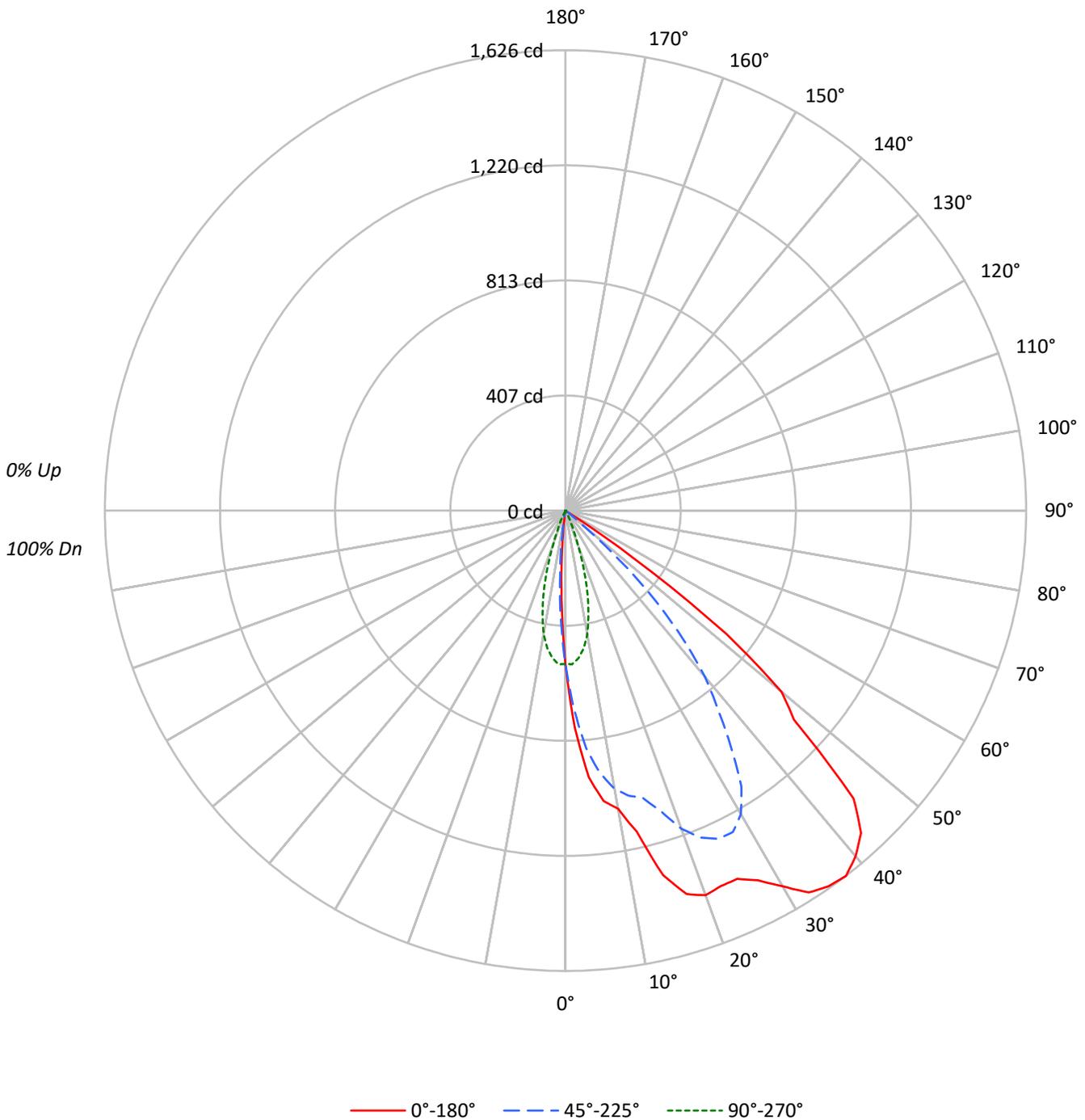
Test Method: LM-79-2019  
Report Number: P1316646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R559740DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1001.9 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
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 (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

TEST NUMBER: P1316646  
CATALOG NUMBER: LDSQA3D13R559740DE010 3LSQCA30R 1MB

### Luminous Intensity Polar Plot





TEST NUMBER: P1316646

CATALOG NUMBER: LDSQA3D13R559740DE010 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	88	86	84	82
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	93241	93241	93241	93241	93241
5°	163441	145704	90503	37602	21645
10°	187069	174390	77402	4110	1486
15°	237725	187195	53061	838	499
20°	264906	218996	23294	0	0
25°	272688	242987	6613	0	0
30°	304662	246235	935	0	0
35°	340513	213819	0	0	0
40°	358184	172100	0	0	0
45°	350214	108701	0	0	0
50°	266672	22211	0	0	0
55°	87376	0	0	0	0
60°	0	0	0	0	0
65°	0	367	367	0	0
70°	0	453	453	0	0
75°	0	599	599	0	0
80°	0	893	1884	893	0
85°	0	1778	1778	1778	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 350214 cd/sqm



TEST NUMBER: P1316646

CATALOG NUMBER: LDSQA3D13R559740DE010 3LSQCA30R 1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	4.9
10°-20°	145.0	14.5
20°-30°	235.8	23.5
30°-40°	280.2	28.0
40°-50°	229.1	22.9
50°-60°	60.7	6.1
60°-70°	0.4	0.0
70°-80°	0.6	0.1
80°-90°	0.7	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°	430.2	42.9
0°-40°	710.4	70.9
0°-60°	1000.3	99.8
0°-90°	1001.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	541	541	541	541	541	
5°	945	843	524	218	125	93
15°	1333	1050	298	5	3	373
25°	1435	1279	35	0	0	676
35°	1620	1017	0	0	0	1007
45°	1438	446	0	0	0	1032
55°	291	0	0	0	0	327
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1316646

CATALOG NUMBER: LDSQA3D13R559740DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	541.4	541.4	541.4	541.4	541.4	541.4	541.4	541.4	541.4	541.4	541.4
2.5°	768.4	762.7	763.7	760.8	763.7	751.4	738.2	726.0	716.6	703.4	623.4
5°	945.4	936.0	933.2	929.4	925.6	910.6	898.3	883.2	865.4	842.8	695.9
7.5°	1034.9	1027.3	1023.6	1025.4	1017.0	1011.3	995.3	978.4	959.5	935.0	750.5
10°	1069.7	1062.2	1061.2	1060.3	1059.3	1055.6	1048.0	1033.0	1016.0	997.2	781.6
12.5°	1161.0	1144.1	1132.8	1119.6	1103.6	1082.9	1065.9	1052.7	1046.2	1031.1	795.7
15°	1333.3	1317.3	1305.1	1288.1	1258.0	1213.8	1173.3	1121.5	1076.3	1049.9	790.0
17.5°	1420.0	1412.4	1402.1	1390.8	1370.1	1338.1	1296.6	1242.0	1184.6	1110.2	762.7
20°	1445.4	1441.6	1434.1	1429.4	1415.3	1392.7	1364.4	1322.0	1268.4	1194.9	720.3
22.5°	1435.0	1437.9	1441.6	1453.9	1455.8	1439.8	1413.4	1372.9	1318.3	1250.5	655.4
25°	1435.0	1433.2	1433.2	1458.6	1474.6	1467.1	1448.2	1411.5	1355.9	1278.7	575.3
27.5°	1471.8	1460.5	1436.9	1463.3	1489.7	1486.8	1469.9	1426.6	1364.4	1279.7	477.4
30°	1532.0	1507.5	1468.9	1493.4	1517.9	1507.5	1480.2	1424.7	1345.6	1238.2	357.8
32.5°	1598.9	1587.6	1567.8	1583.8	1580.1	1538.6	1489.7	1412.4	1307.0	1155.4	241.1
35°	1619.6	1621.5	1608.3	1605.5	1583.8	1541.4	1489.7	1377.6	1226.0	1017.0	143.1
37.5°	1626.2	1627.1	1606.4	1580.1	1548.0	1498.1	1436.0	1306.0	1076.3	883.2	76.3
40°	1593.2	1592.3	1558.4	1526.4	1490.6	1441.6	1351.2	1155.4	934.1	765.5	27.3
42.5°	1544.3	1532.0	1500.0	1460.5	1417.2	1355.9	1214.7	975.5	811.7	613.0	1.9
45°	1437.9	1426.6	1401.1	1358.8	1310.7	1224.1	1001.0	838.1	660.1	446.3	0.0
47.5°	1093.2	1087.6	1113.9	1119.6	1118.7	1019.8	835.2	683.6	484.9	259.9	0.0
50°	995.3	987.8	961.4	927.5	867.2	784.4	669.5	506.6	284.4	82.9	0.0
52.5°	714.7	739.2	744.8	719.4	662.9	581.0	461.4	291.9	98.9	0.0	0.0
55°	291.0	275.9	287.2	301.3	312.6	287.2	212.8	103.6	0.9	0.0	0.0
57.5°	0.0	0.9	5.6	13.2	21.7	27.3	29.2	1.9	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	0.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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: P1316646  
 CATALOG NUMBER: LDSQA3D13R559740DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	541.4	541.4	541.4	541.4	541.4
2.5°	543.3	459.5	378.5	334.3	312.6
5°	523.5	351.2	217.5	150.7	125.2
7.5°	490.6	241.1	86.6	35.8	25.4
10°	442.6	138.4	23.5	9.4	8.5
12.5°	373.8	63.1	8.5	6.6	6.6
15°	297.6	21.7	4.7	3.8	2.8
17.5°	209.0	5.6	1.9	0.0	0.0
20°	127.1	0.9	0.0	0.0	0.0
22.5°	70.6	0.0	0.0	0.0	0.0
25°	34.8	0.0	0.0	0.0	0.0
27.5°	15.1	0.0	0.0	0.0	0.0
30°	4.7	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0
65°	0.9	0.9	0.0	0.0	0.0
67.5°	0.9	0.9	0.0	0.0	0.0
70°	0.9	0.9	0.0	0.0	0.0
72.5°	0.9	0.9	0.0	0.0	0.0
75°	0.9	0.9	0.0	0.0	0.0
77.5°	1.9	0.9	0.9	0.0	0.0
80°	1.9	0.9	0.9	0.0	0.0
82.5°	1.9	0.9	0.9	0.0	0.0
85°	0.9	0.9	0.9	0.0	0.0
87.5°	1.9	0.9	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)