

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: P1315676

Luminaire Tested: LDSQA3D13R559735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R559735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

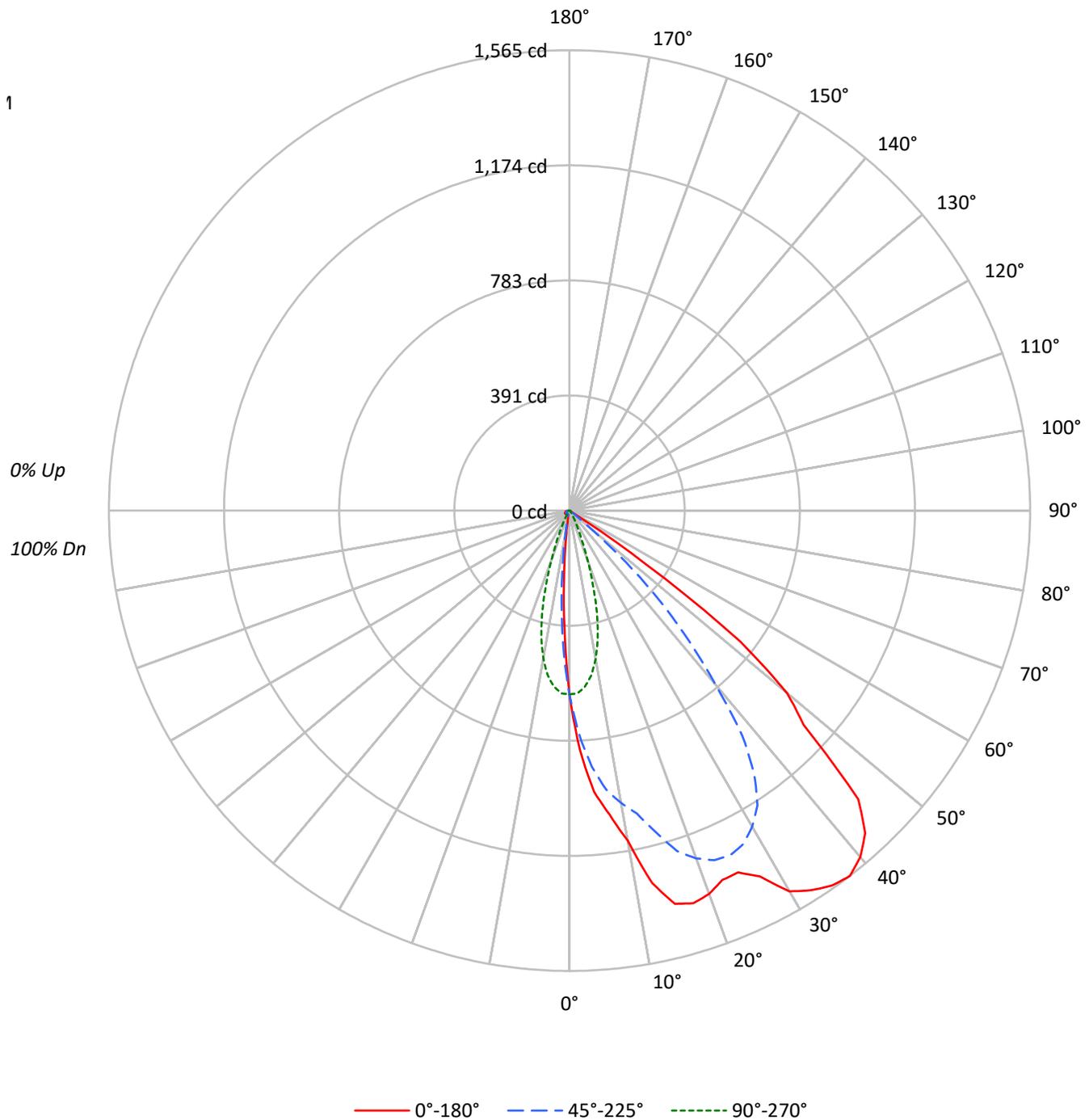
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1042.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
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<sub>in</sub>): 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: P1315676  
CATALOG NUMBER: LDSQA3D13R559735DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1315676

CATALOG NUMBER: LDSQA3D13R559735DE010 3LSQCA30R 1MW

**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	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	107553	107553	107553	107553	107553
5°	165862	150994	103901	53351	35043
10°	199293	176488	89433	13448	5386
15°	246747	201566	63902	3709	2906
20°	254148	230579	33008	2493	2493
25°	257828	245609	13245	2242	2584
30°	297185	246772	5767	2347	2705
35°	327120	230071	2481	2481	3049
40°	345527	173179	1416	2855	3260
45°	337963	105827	1315	3093	3970
50°	258526	22560	1447	3644	4608
55°	94852	811	1621	4084	5164
60°	930	930	1860	4684	5924
65°	1100	1100	2201	4809	6276
70°	906	1360	2266	5489	7301
75°	599	1198	2396	6055	8451
80°	893	1785	2678	6248	9025
85°	0	1778	3557	7114	8892

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 337963 cd/sqm



TEST NUMBER: P1315676

CATALOG NUMBER: LDSQA3D13R559735DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.0	5.3
10°-20°	157.4	15.1
20°-30°	241.5	23.2
30°-40°	281.5	27.0
40°-50°	224.9	21.6
50°-60°	66.6	6.4
60°-70°	7.1	0.7
70°-80°	5.6	0.5
80°-90°	2.4	0.2
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°	454.0	43.6
0°-40°	735.4	70.6
0°-60°	1026.9	98.6
0°-90°	1042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	624	624	624	624	624	
5°	959	873	601	309	203	96
15°	1384	1130	358	21	16	382
25°	1357	1292	70	12	14	644
35°	1556	1094	12	12	14	969
45°	1388	434	5	13	16	1000
55°	316	3	5	14	17	335
65°	3	3	5	12	15	2
75°	1	2	4	9	13	1
85°	0	1	2	4	4	0
90°	0	0	0	0	0	



TEST NUMBER: P1315676

CATALOG NUMBER: LDSQA3D13R559735DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
2.5°	814.6	814.6	811.9	812.8	811.0	801.0	799.2	786.6	775.7	763.9	754.0
5°	959.4	961.2	958.5	953.1	945.9	938.6	923.2	911.5	896.1	873.4	852.6
7.5°	1041.8	1040.0	1035.5	1033.7	1029.1	1021.0	1010.1	997.5	979.3	956.7	932.3
10°	1139.6	1124.2	1119.6	1112.4	1097.9	1081.6	1062.6	1045.4	1030.0	1009.2	983.0
12.5°	1297.0	1294.3	1276.2	1262.7	1242.7	1206.5	1174.0	1135.9	1090.7	1054.5	1020.1
15°	1383.9	1385.8	1377.6	1366.7	1354.1	1324.2	1291.6	1247.3	1193.9	1130.5	1074.4
17.5°	1399.3	1402.0	1397.5	1393.0	1389.4	1372.2	1352.3	1320.6	1271.7	1212.9	1129.6
20°	1386.7	1392.1	1393.0	1398.4	1405.7	1398.4	1382.1	1360.4	1319.7	1258.1	1178.5
22.5°	1358.6	1368.6	1375.8	1394.8	1413.8	1413.8	1403.9	1386.7	1346.8	1286.2	1204.7
25°	1356.8	1358.6	1361.3	1392.1	1422.0	1428.3	1419.2	1401.1	1357.7	1292.5	1203.8
27.5°	1402.0	1390.3	1372.2	1402.9	1438.2	1443.7	1431.0	1406.6	1355.0	1278.0	1173.0
30°	1494.4	1468.1	1430.1	1452.7	1477.2	1470.8	1445.5	1406.6	1336.9	1240.9	1115.1
32.5°	1529.7	1515.2	1501.6	1526.0	1530.6	1504.3	1459.1	1401.1	1307.9	1188.4	1020.1
35°	1555.9	1556.8	1551.4	1555.9	1534.2	1497.1	1447.3	1371.3	1253.6	1094.3	894.3
37.5°	1565.0	1566.8	1555.0	1538.7	1506.1	1463.6	1403.9	1317.0	1163.1	964.9	704.2
40°	1536.9	1531.5	1512.5	1489.8	1454.5	1411.1	1345.9	1216.5	1028.2	770.3	549.4
42.5°	1487.1	1478.1	1455.4	1428.3	1391.2	1336.0	1231.9	1075.3	835.4	601.0	384.7
45°	1387.6	1381.2	1353.2	1333.3	1288.9	1217.4	1083.4	886.1	646.3	434.5	222.7
47.5°	1078.0	1078.9	1100.6	1110.6	1095.2	1038.2	880.7	673.4	471.6	258.9	75.1
50°	964.9	960.3	938.6	908.7	859.0	773.9	646.3	476.1	278.8	84.2	10.9
52.5°	732.2	732.2	721.4	706.0	653.5	571.1	437.2	263.4	97.8	14.5	2.7
55°	315.9	299.6	308.6	325.8	312.3	271.5	204.6	78.7	17.2	2.7	2.7
57.5°	4.5	10.9	16.3	26.2	35.3	42.5	22.6	8.1	2.7	2.7	2.7
60°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
62.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
65°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
67.5°	1.8	1.8	1.8	2.7	1.8	2.7	2.7	2.7	2.7	2.7	2.7
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	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: P1315676

CATALOG NUMBER: LDSQA3D13R559735DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	624.5	624.5	624.5	624.5	624.5	624.5	624.5	624.5
2.5°	739.5	724.1	698.8	621.8	542.2	468.9	416.4	396.4
5°	829.1	801.0	758.5	601.0	442.6	308.6	232.6	202.7
7.5°	899.7	863.5	801.9	564.8	324.9	164.7	98.7	77.8
10°	946.8	906.9	826.4	511.4	215.4	76.9	37.1	30.8
12.5°	981.2	931.4	835.4	442.6	126.7	35.3	19.9	18.1
15°	1006.5	942.2	824.6	358.4	69.7	20.8	16.3	16.3
17.5°	1041.8	947.7	798.3	264.3	39.8	15.4	15.4	15.4
20°	1069.0	947.7	748.5	180.1	24.4	13.6	13.6	13.6
22.5°	1082.5	933.2	687.9	114.0	17.2	12.7	13.6	13.6
25°	1069.0	897.9	610.1	69.7	13.6	11.8	12.7	13.6
27.5°	1019.2	827.3	506.0	44.4	10.9	11.8	12.7	13.6
30°	935.9	725.0	388.3	29.0	10.0	11.8	12.7	13.6
32.5°	818.2	572.9	251.6	19.0	9.1	11.8	12.7	13.6
35°	639.0	405.5	152.1	11.8	9.1	11.8	13.6	14.5
37.5°	478.8	270.6	82.4	7.2	9.1	11.8	13.6	14.5
40°	332.2	157.5	35.3	6.3	9.1	12.7	14.5	14.5
42.5°	192.8	62.5	9.1	5.4	9.1	12.7	14.5	15.4
45°	70.6	12.7	2.7	5.4	10.0	12.7	14.5	16.3
47.5°	10.0	2.7	2.7	5.4	10.0	12.7	15.4	16.3
50°	2.7	2.7	2.7	5.4	10.0	13.6	16.3	17.2
52.5°	2.7	2.7	2.7	5.4	10.0	13.6	16.3	17.2
55°	2.7	2.7	2.7	5.4	10.0	13.6	16.3	17.2
57.5°	2.7	2.7	2.7	5.4	10.0	13.6	16.3	17.2
60°	2.7	2.7	2.7	5.4	9.1	13.6	16.3	17.2
62.5°	2.7	2.7	2.7	5.4	9.1	12.7	15.4	16.3
65°	2.7	2.7	2.7	5.4	8.1	11.8	15.4	15.4
67.5°	2.7	2.7	2.7	4.5	8.1	11.8	14.5	15.4
70°	2.7	2.7	2.7	4.5	7.2	10.9	13.6	14.5
72.5°	2.7	2.7	2.7	3.6	6.3	10.0	12.7	13.6
75°	1.8	2.7	2.7	3.6	6.3	9.1	11.8	12.7
77.5°	1.8	2.7	2.7	2.7	5.4	7.2	10.0	10.9
80°	1.8	1.8	2.7	2.7	4.5	6.3	8.1	9.1
82.5°	1.8	1.8	1.8	2.7	3.6	4.5	6.3	6.3
85°	1.8	1.8	1.8	1.8	2.7	3.6	4.5	4.5
87.5°	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)