

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: P1313869

Luminaire Tested: LDSQA3D17R509727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

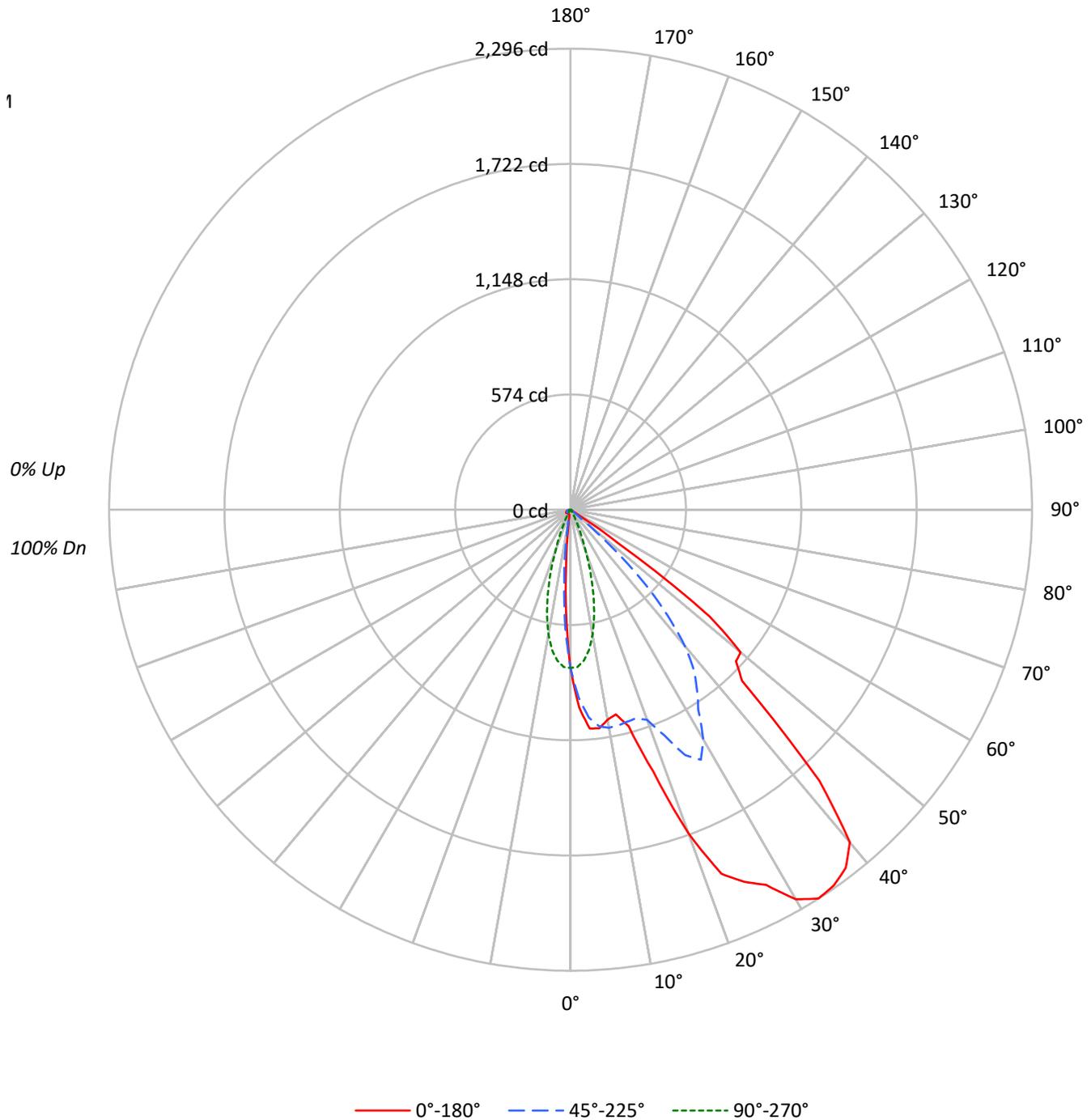
Test Method: LM-79-2019  
Report Number: P1313869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509727DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1225.0 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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: P1313869  
CATALOG NUMBER: LDSQA3D17R509727DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1313869

CATALOG NUMBER: LDSQA3D17R509727DE010 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	102	102	102	100	
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36	

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

	0°	45°	90°	135°	180°
0°	135643	135643	135643	135643	135643
5°	189131	179433	130369	62669	40661
10°	185652	192822	110192	13203	5666
15°	199088	194862	77898	4618	4422
20°	314391	204059	41127	3959	4160
25°	388491	256270	16399	3687	4105
30°	445399	262821	6642	3639	4295
35°	480200	230681	2943	3847	4773
40°	486062	198652	2181	4362	5328
45°	293782	128746	2095	4725	6040
50°	296010	22265	2304	5493	6939
55°	87466	1291	2582	6155	7777
60°	1481	1481	2618	6682	8542
65°	1304	1304	2649	7050	9251
70°	1611	1611	2719	7604	10323
75°	1464	1464	2861	7918	10780
80°	1091	2182	3174	7538	11802
85°	2174	4347	4347	8497	10671

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 335552 cd/sqm



TEST NUMBER: P1313869

CATALOG NUMBER: LDSQA3D17R509727DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	5.2
10°-20°	158.1	12.9
20°-30°	296.2	24.2
30°-40°	354.2	28.9
40°-50°	253.8	20.7
50°-60°	78.2	6.4
60°-70°	10.2	0.8
70°-80°	7.4	0.6
80°-90°	3.0	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°	518.1	42.3
0°-40°	872.3	71.2
0°-60°	1204.3	98.3
0°-90°	1225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	788	788	788	788	788	
5°	1094	1038	754	362	235	102
15°	1117	1093	437	26	25	358
25°	2044	1349	86	19	22	942
35°	2284	1097	14	18	23	1417
45°	1206	529	9	19	25	1108
55°	291	4	9	20	26	375
65°	3	3	6	17	23	4
75°	2	2	4	12	16	2
85°	1	2	2	4	5	1
90°	0	0	0	0	0	



TEST NUMBER: P1313869

CATALOG NUMBER: LDSQA3D17R509727DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	985.0	987.2	990.4	981.8	976.4	972.1	964.5	962.3	944.0	936.5	928.9
5°	1094.0	1091.8	1094.0	1090.7	1088.6	1082.1	1075.6	1064.8	1053.0	1037.9	1020.6
7.5°	1097.2	1095.0	1099.4	1099.4	1103.7	1103.7	1103.7	1104.8	1098.3	1087.5	1072.4
10°	1061.6	1061.6	1065.9	1063.8	1071.3	1074.5	1082.1	1095.0	1101.5	1102.6	1098.3
12.5°	1043.3	1043.3	1044.3	1040.0	1042.2	1045.4	1054.1	1069.2	1084.3	1099.4	1108.0
15°	1116.6	1118.8	1103.7	1082.1	1065.9	1048.7	1043.3	1053.0	1069.2	1092.9	1112.3
17.5°	1365.8	1369.1	1352.9	1301.1	1251.5	1180.3	1116.6	1085.3	1068.1	1087.5	1113.4
20°	1715.4	1703.5	1675.5	1620.5	1548.2	1438.1	1338.9	1238.5	1142.5	1113.4	1122.0
22.5°	1962.5	1958.1	1935.5	1874.0	1811.4	1708.9	1582.7	1442.4	1303.3	1214.8	1168.4
25°	2044.4	2041.2	2020.7	1984.0	1949.5	1871.8	1758.5	1617.2	1471.6	1348.6	1232.1
27.5°	2105.9	2101.6	2069.3	2028.3	1992.7	1913.9	1810.3	1703.5	1569.7	1403.6	1224.5
30°	2239.7	2227.9	2182.5	2109.2	2041.2	1932.2	1817.9	1685.2	1503.9	1321.6	1146.8
32.5°	2295.8	2289.3	2250.5	2191.2	2116.7	1974.3	1800.6	1578.4	1339.9	1182.4	1055.1
35°	2284.0	2274.2	2234.3	2166.4	2075.7	1938.7	1706.8	1401.4	1207.2	1097.2	953.7
37.5°	2248.4	2234.3	2186.9	2107.0	1997.0	1817.9	1514.7	1258.0	1132.8	1008.7	815.6
40°	2162.0	2139.4	2084.4	2001.3	1891.2	1656.1	1339.9	1171.6	1055.1	883.6	661.3
42.5°	1831.9	1820.0	1847.0	1833.0	1735.9	1458.6	1215.9	1092.9	932.1	714.2	479.0
45°	1206.2	1226.7	1275.2	1358.3	1377.7	1254.7	1114.5	963.4	767.1	528.6	276.2
47.5°	1116.6	1112.3	1124.2	1140.4	1143.6	1091.8	964.5	796.2	569.6	302.1	76.6
50°	1104.8	1098.3	1088.6	1069.2	1028.2	927.8	783.3	580.4	329.1	83.1	5.4
52.5°	872.8	866.3	866.3	838.3	785.4	688.3	540.5	319.3	91.7	5.4	4.3
55°	291.3	310.7	307.5	306.4	330.1	304.2	233.0	82.0	7.6	4.3	4.3
57.5°	5.4	5.4	5.4	9.7	15.1	21.6	12.9	6.5	4.3	4.3	4.3
60°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2
77.5°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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: P1313869

CATALOG NUMBER: LDSQA3D17R509727DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	911.6	896.5	867.4	784.3	692.6	588.0	516.8	508.1
5°	993.6	971.0	923.5	754.1	544.8	362.5	269.7	235.2
7.5°	1047.6	1017.4	959.1	704.5	397.0	191.0	102.5	82.0
10°	1079.9	1051.9	977.5	630.1	252.5	75.5	34.5	32.4
12.5°	1097.2	1070.2	983.9	540.5	142.4	34.5	27.0	27.0
15°	1109.1	1079.9	974.2	436.9	71.2	25.9	24.8	24.8
17.5°	1114.5	1078.9	946.2	329.1	37.8	23.7	23.7	23.7
20°	1117.7	1067.0	894.4	224.4	25.9	21.6	22.7	22.7
22.5°	1120.9	1037.9	826.4	142.4	20.5	20.5	21.6	21.6
25°	1114.5	987.2	730.4	86.3	18.3	19.4	20.5	21.6
27.5°	1068.1	910.6	613.9	52.9	16.2	18.3	20.5	21.6
30°	988.2	798.4	479.0	33.4	15.1	18.3	20.5	21.6
32.5°	884.7	670.0	342.0	20.5	15.1	18.3	20.5	21.6
35°	745.5	512.5	222.2	14.0	15.1	18.3	21.6	22.7
37.5°	589.1	358.2	119.8	10.8	15.1	18.3	21.6	22.7
40°	424.0	214.7	43.2	9.7	14.0	19.4	22.7	23.7
42.5°	248.1	79.8	7.6	8.6	14.0	19.4	22.7	23.7
45°	71.2	8.6	4.3	8.6	14.0	19.4	23.7	24.8
47.5°	5.4	3.2	4.3	8.6	14.0	19.4	23.7	25.9
50°	3.2	3.2	3.2	8.6	14.0	20.5	24.8	25.9
52.5°	4.3	4.3	4.3	8.6	14.0	20.5	24.8	25.9
55°	4.3	4.3	4.3	8.6	14.0	20.5	24.8	25.9
57.5°	4.3	4.3	4.3	8.6	14.0	19.4	24.8	25.9
60°	4.3	4.3	4.3	7.6	12.9	19.4	23.7	24.8
62.5°	4.3	4.3	4.3	7.6	12.9	18.3	23.7	23.7
65°	4.3	4.3	4.3	6.5	11.9	17.3	21.6	22.7
67.5°	4.3	4.3	4.3	6.5	10.8	16.2	20.5	21.6
70°	3.2	4.3	4.3	5.4	9.7	15.1	19.4	20.5
72.5°	3.2	3.2	4.3	5.4	8.6	12.9	17.3	18.3
75°	3.2	3.2	3.2	4.3	7.6	11.9	15.1	16.2
77.5°	3.2	3.2	3.2	4.3	6.5	9.7	14.0	14.0
80°	2.2	3.2	3.2	3.2	5.4	7.6	10.8	11.9
82.5°	2.2	2.2	2.2	3.2	4.3	6.5	8.6	8.6
85°	2.2	2.2	2.2	2.2	3.2	4.3	5.4	5.4
87.5°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)