

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: P1316639

Luminaire Tested: LDSQA3D13R509740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

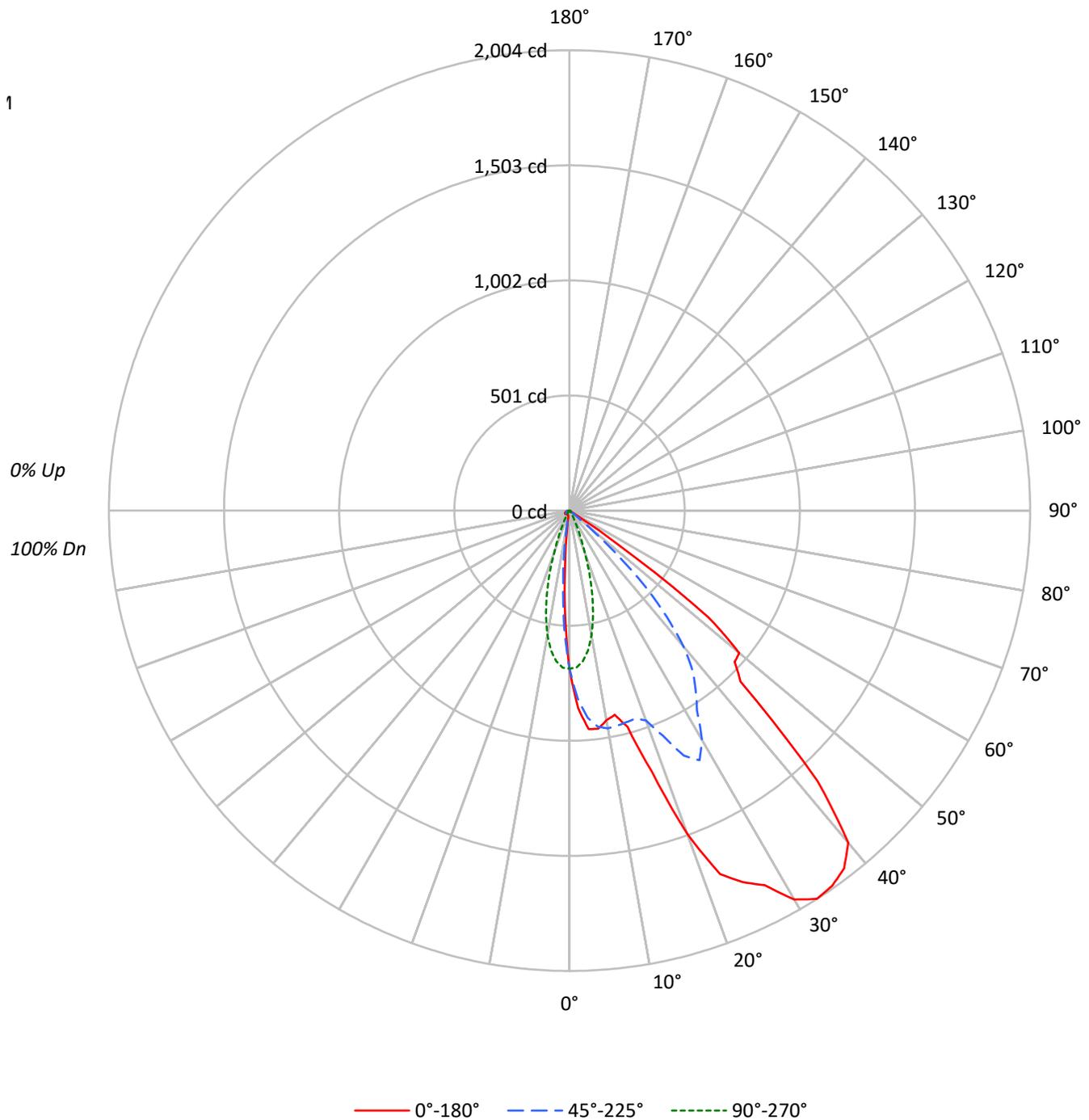
Test Method: LM-79-2019  
Report Number: P1316639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R509740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1069.0 lumens  
Efficiency: N/A  
Efficacy: 73.2 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): 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: P1316639  
CATALOG NUMBER: LDSQA3D13R509740DE010 3LSQCA30R 1MW

### 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	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°	118369	118369	118369	118369	118369
5°	165049	156578	113773	54682	35475
10°	162008	168269	96149	11525	4932
15°	173734	170043	67985	4030	3869
20°	274345	178070	35885	3446	3629
25°	339027	223623	14309	3211	3573
30°	388683	229352	5807	3182	3739
35°	419039	201310	2565	3364	4163
40°	424169	173359	1911	3799	4654
45°	256371	112354	1827	4116	5285
50°	258312	19425	2009	4796	6055
55°	76326	1141	2252	5375	6786
60°	1309	1309	2273	5821	7474
65°	1141	1141	2282	6153	8069
70°	1410	1410	2367	6647	9013
75°	1264	1264	2529	6920	9382
80°	893	1884	2777	6546	10315
85°	1778	3754	3754	7509	9287

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 292832 cd/sqm



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CATALOG NUMBER: LDSQA3D13R509740DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	5.2
10°-20°	138.0	12.9
20°-30°	258.5	24.2
30°-40°	309.1	28.9
40°-50°	221.5	20.7
50°-60°	68.3	6.4
60°-70°	8.9	0.8
70°-80°	6.5	0.6
80°-90°	2.6	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°	452.1	42.3
0°-40°	761.2	71.2
0°-60°	1050.9	98.3
0°-90°	1069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	687	687	687	687	687	
5°	955	906	658	316	205	89
15°	974	954	381	23	22	312
25°	1784	1177	75	17	19	822
35°	1993	958	12	16	20	1237
45°	1053	461	8	17	22	967
55°	254	4	8	18	23	327
65°	3	3	6	15	20	3
75°	2	2	4	10	14	2
85°	1	2	2	4	5	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	859.6	861.4	864.3	856.7	852.0	848.3	841.7	839.8	823.8	817.2	810.6
5°	954.7	952.8	954.7	951.8	949.9	944.3	938.6	929.2	918.9	905.7	890.6
7.5°	957.5	955.6	959.4	959.4	963.1	963.1	963.1	964.1	958.4	949.0	935.8
10°	926.4	926.4	930.2	928.3	934.9	937.7	944.3	955.6	961.2	962.2	958.4
12.5°	910.4	910.4	911.3	907.6	909.5	912.3	919.8	933.0	946.2	959.4	966.9
15°	974.4	976.3	963.1	944.3	930.2	915.1	910.4	918.9	933.0	953.7	970.7
17.5°	1191.9	1194.7	1180.6	1135.4	1092.1	1030.0	974.4	947.1	932.1	949.0	971.6
20°	1496.9	1486.6	1462.1	1414.1	1351.0	1255.0	1168.4	1080.8	997.0	971.6	979.1
22.5°	1712.5	1708.8	1689.0	1635.3	1580.7	1491.3	1381.1	1258.8	1137.3	1060.1	1019.6
25°	1784.1	1781.3	1763.4	1731.4	1701.2	1633.5	1534.6	1411.3	1284.2	1176.8	1075.2
27.5°	1837.8	1834.0	1805.7	1770.0	1738.9	1670.2	1579.8	1486.6	1369.8	1224.9	1068.6
30°	1954.5	1944.1	1904.6	1840.6	1781.3	1686.2	1586.4	1470.6	1312.4	1153.3	1000.8
32.5°	2003.5	1997.8	1963.9	1912.1	1847.2	1722.9	1571.3	1377.4	1169.3	1031.9	920.8
35°	1993.1	1984.6	1949.8	1890.5	1811.4	1691.8	1489.4	1223.0	1053.5	957.5	832.3
37.5°	1962.0	1949.8	1908.4	1838.7	1742.7	1586.4	1321.8	1097.8	988.5	880.3	711.8
40°	1886.7	1866.9	1818.9	1746.4	1650.4	1445.2	1169.3	1022.4	920.8	771.1	577.1
42.5°	1598.6	1588.3	1611.8	1599.6	1514.8	1272.9	1061.0	953.7	813.4	623.3	418.0
45°	1052.6	1070.5	1112.8	1185.3	1202.3	1094.9	972.5	840.7	669.4	461.3	241.0
47.5°	974.4	970.7	981.0	995.1	998.0	952.8	841.7	694.8	497.1	263.6	66.8
50°	964.1	958.4	949.9	933.0	897.2	809.7	683.5	506.5	287.1	72.5	4.7
52.5°	761.7	756.0	756.0	731.5	685.4	600.7	471.7	278.7	80.0	4.7	3.8
55°	254.2	271.1	268.3	267.4	288.1	265.5	203.4	71.6	6.6	3.8	3.8
57.5°	4.7	4.7	4.7	8.5	13.2	18.8	11.3	5.6	3.8	3.8	3.8
60°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
62.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.8
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8	2.8
75°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8
77.5°	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	795.5	782.4	756.9	684.5	604.4	513.1	451.0	443.4
5°	867.1	847.3	805.9	658.1	475.4	316.3	235.4	205.2
7.5°	914.2	887.8	837.0	614.8	346.5	166.6	89.4	71.6
10°	942.4	917.9	853.0	549.8	220.3	65.9	30.1	28.2
12.5°	957.5	933.9	858.6	471.7	124.3	30.1	23.5	23.5
15°	967.8	942.4	850.2	381.3	62.1	22.6	21.7	21.7
17.5°	972.5	941.5	825.7	287.1	33.0	20.7	20.7	20.7
20°	975.4	931.1	780.5	195.8	22.6	18.8	19.8	19.8
22.5°	978.2	905.7	721.2	124.3	17.9	17.9	18.8	18.8
25°	972.5	861.4	637.4	75.3	16.0	16.9	17.9	18.8
27.5°	932.1	794.6	535.7	46.1	14.1	16.0	17.9	18.8
30°	862.4	696.7	418.0	29.2	13.2	16.0	17.9	18.8
32.5°	772.0	584.7	298.4	17.9	13.2	16.0	17.9	18.8
35°	650.6	447.2	193.9	12.2	13.2	16.0	18.8	19.8
37.5°	514.0	312.6	104.5	9.4	13.2	16.0	18.8	19.8
40°	370.0	187.4	37.7	8.5	12.2	16.9	19.8	20.7
42.5°	216.5	69.7	6.6	7.5	12.2	16.9	19.8	20.7
45°	62.1	7.5	3.8	7.5	12.2	16.9	20.7	21.7
47.5°	4.7	2.8	3.8	7.5	12.2	16.9	20.7	22.6
50°	2.8	2.8	2.8	7.5	12.2	17.9	21.7	22.6
52.5°	3.8	3.8	3.8	7.5	12.2	17.9	21.7	22.6
55°	3.8	3.8	3.8	7.5	12.2	17.9	21.7	22.6
57.5°	3.8	3.8	3.8	7.5	12.2	16.9	21.7	22.6
60°	3.8	3.8	3.8	6.6	11.3	16.9	20.7	21.7
62.5°	3.8	3.8	3.8	6.6	11.3	16.0	20.7	20.7
65°	3.8	3.8	3.8	5.6	10.4	15.1	18.8	19.8
67.5°	3.8	3.8	3.8	5.6	9.4	14.1	17.9	18.8
70°	2.8	3.8	3.8	4.7	8.5	13.2	16.9	17.9
72.5°	2.8	2.8	3.8	4.7	7.5	11.3	15.1	16.0
75°	2.8	2.8	2.8	3.8	6.6	10.4	13.2	14.1
77.5°	2.8	2.8	2.8	3.8	5.6	8.5	12.2	12.2
80°	1.9	2.8	2.8	2.8	4.7	6.6	9.4	10.4
82.5°	1.9	1.9	1.9	2.8	3.8	5.6	7.5	7.5
85°	1.9	1.9	1.9	1.9	2.8	3.8	4.7	4.7
87.5°	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)