

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: P1315813

Luminaire Tested: LDSQA3D17R509735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

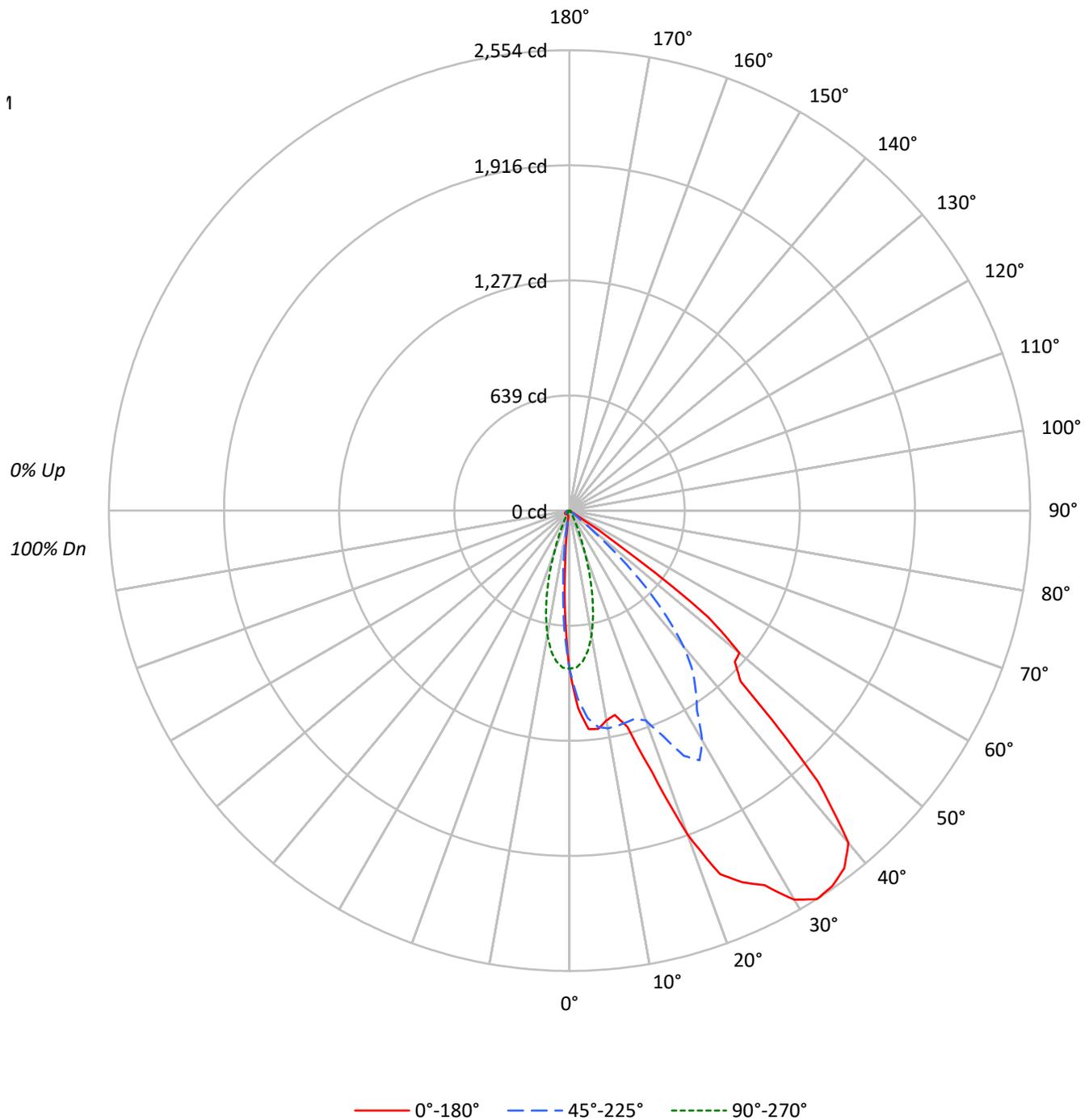
Test Method: LM-79-2019  
Report Number: P1315813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1363.0 lumens  
Efficiency: N/A  
Efficacy: 64.3 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 (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

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### 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°	150919	150919	150919	150919	150919
5°	210430	199642	145064	69723	45243
10°	206568	214542	122590	14690	6296
15°	221517	216810	86688	5135	4921
20°	349800	227042	45764	4399	4619
25°	432273	285135	18243	4105	4561
30°	495573	292432	7398	4057	4773
35°	534275	256667	3280	4289	5298
40°	540829	221021	2428	4856	5935
45°	326857	143262	2338	5261	6722
50°	329341	24757	2572	6109	7716
55°	97315	1441	2883	6846	8648
60°	1653	1653	2893	7440	9507
65°	1467	1467	2934	7824	10269
70°	1813	1813	3021	8460	11481
75°	1597	1597	3194	8784	11978
80°	1190	2380	3570	8331	13092
85°	2371	4742	4742	9485	11856

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 373353 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	5.2
10°-20°	175.9	12.9
20°-30°	329.6	24.2
30°-40°	394.1	28.9
40°-50°	282.4	20.7
50°-60°	87.0	6.4
60°-70°	11.4	0.8
70°-80°	8.3	0.6
80°-90°	3.4	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°	576.4	42.3
0°-40°	970.5	71.2
0°-60°	1340.0	98.3
0°-90°	1363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	876	876	876	876	876	
5°	1217	1155	839	403	262	113
15°	1242	1216	486	29	28	398
25°	2275	1500	96	22	24	1048
35°	2541	1221	16	20	25	1577
45°	1342	588	10	22	28	1233
55°	324	5	10	23	29	417
65°	4	4	7	19	25	4
75°	2	2	5	13	18	2
85°	1	2	2	5	6	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°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	1096.0	1098.4	1102.0	1092.4	1086.4	1081.6	1073.2	1070.8	1050.4	1041.9	1033.5
5°	1217.2	1214.8	1217.2	1213.6	1211.2	1204.0	1196.8	1184.8	1171.6	1154.8	1135.6
7.5°	1220.8	1218.4	1223.2	1223.2	1228.0	1228.0	1228.0	1229.2	1222.0	1210.0	1193.2
10°	1181.2	1181.2	1186.0	1183.6	1192.0	1195.6	1204.0	1218.4	1225.6	1226.8	1222.0
12.5°	1160.8	1160.8	1162.0	1157.2	1159.6	1163.2	1172.8	1189.6	1206.4	1223.2	1232.8
15°	1242.4	1244.8	1228.0	1204.0	1186.0	1166.8	1160.8	1171.6	1189.6	1216.0	1237.6
17.5°	1519.7	1523.3	1505.3	1447.7	1392.5	1313.2	1242.4	1207.6	1188.4	1210.0	1238.8
20°	1908.6	1895.4	1864.2	1803.0	1722.6	1600.1	1489.7	1378.1	1271.2	1238.8	1248.4
22.5°	2183.5	2178.7	2153.5	2085.1	2015.5	1901.4	1761.0	1604.9	1450.1	1351.7	1300.0
25°	2274.8	2271.2	2248.4	2207.5	2169.1	2082.7	1956.7	1799.4	1637.3	1500.5	1370.9
27.5°	2343.2	2338.4	2302.4	2256.8	2217.1	2129.5	2014.3	1895.4	1746.6	1561.7	1362.5
30°	2492.0	2478.8	2428.4	2346.8	2271.2	2149.9	2022.7	1875.0	1673.4	1470.5	1276.0
32.5°	2554.5	2547.3	2504.0	2438.0	2355.2	2196.7	2003.5	1756.2	1490.9	1315.6	1174.0
35°	2541.2	2530.4	2486.0	2410.4	2309.6	2157.1	1899.0	1559.3	1343.2	1220.8	1061.2
37.5°	2501.6	2486.0	2433.2	2344.4	2221.9	2022.7	1685.4	1399.7	1260.4	1122.4	907.5
40°	2405.6	2380.4	2319.2	2226.7	2104.3	1842.6	1490.9	1303.6	1174.0	983.1	735.8
42.5°	2038.3	2025.1	2055.1	2039.5	1931.4	1622.9	1352.9	1216.0	1037.1	794.7	533.0
45°	1342.0	1364.9	1418.9	1511.3	1532.9	1396.1	1240.0	1072.0	853.5	588.2	307.3
47.5°	1242.4	1237.6	1250.8	1268.8	1272.4	1214.8	1073.2	885.9	633.8	336.1	85.2
50°	1229.2	1222.0	1211.2	1189.6	1144.0	1032.3	871.5	645.8	366.1	92.4	6.0
52.5°	971.1	963.9	963.9	932.7	873.9	765.9	601.4	355.3	102.0	6.0	4.8
55°	324.1	345.7	342.1	340.9	367.3	338.5	259.3	91.2	8.4	4.8	4.8
57.5°	6.0	6.0	6.0	10.8	16.8	24.0	14.4	7.2	4.8	4.8	4.8
60°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
62.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8
67.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
77.5°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	876.3	876.3	876.3	876.3	876.3	876.3	876.3	876.3
2.5°	1014.3	997.5	965.1	872.7	770.7	654.2	575.0	565.4
5°	1105.6	1080.4	1027.5	839.1	606.2	403.3	300.1	261.7
7.5°	1165.6	1132.0	1067.2	783.9	441.7	212.5	114.0	91.2
10°	1201.6	1170.4	1087.6	701.0	280.9	84.0	38.4	36.0
12.5°	1220.8	1190.8	1094.8	601.4	158.5	38.4	30.0	30.0
15°	1234.0	1201.6	1084.0	486.2	79.2	28.8	27.6	27.6
17.5°	1240.0	1200.4	1052.8	366.1	42.0	26.4	26.4	26.4
20°	1243.6	1187.2	995.1	249.7	28.8	24.0	25.2	25.2
22.5°	1247.2	1154.8	919.5	158.5	22.8	22.8	24.0	24.0
25°	1240.0	1098.4	812.7	96.0	20.4	21.6	22.8	24.0
27.5°	1188.4	1013.1	683.0	58.8	18.0	20.4	22.8	24.0
30°	1099.6	888.3	533.0	37.2	16.8	20.4	22.8	24.0
32.5°	984.3	745.4	380.5	22.8	16.8	20.4	22.8	24.0
35°	829.5	570.2	247.3	15.6	16.8	20.4	24.0	25.2
37.5°	655.4	398.5	133.2	12.0	16.8	20.4	24.0	25.2
40°	471.8	238.9	48.0	10.8	15.6	21.6	25.2	26.4
42.5°	276.1	88.8	8.4	9.6	15.6	21.6	25.2	26.4
45°	79.2	9.6	4.8	9.6	15.6	21.6	26.4	27.6
47.5°	6.0	3.6	4.8	9.6	15.6	21.6	26.4	28.8
50°	3.6	3.6	3.6	9.6	15.6	22.8	27.6	28.8
52.5°	4.8	4.8	4.8	9.6	15.6	22.8	27.6	28.8
55°	4.8	4.8	4.8	9.6	15.6	22.8	27.6	28.8
57.5°	4.8	4.8	4.8	9.6	15.6	21.6	27.6	28.8
60°	4.8	4.8	4.8	8.4	14.4	21.6	26.4	27.6
62.5°	4.8	4.8	4.8	8.4	14.4	20.4	26.4	26.4
65°	4.8	4.8	4.8	7.2	13.2	19.2	24.0	25.2
67.5°	4.8	4.8	4.8	7.2	12.0	18.0	22.8	24.0
70°	3.6	4.8	4.8	6.0	10.8	16.8	21.6	22.8
72.5°	3.6	3.6	4.8	6.0	9.6	14.4	19.2	20.4
75°	3.6	3.6	3.6	4.8	8.4	13.2	16.8	18.0
77.5°	3.6	3.6	3.6	4.8	7.2	10.8	15.6	15.6
80°	2.4	3.6	3.6	3.6	6.0	8.4	12.0	13.2
82.5°	2.4	2.4	2.4	3.6	4.8	7.2	9.6	9.6
85°	2.4	2.4	2.4	2.4	3.6	4.8	6.0	6.0
87.5°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)