

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: P1317849

Luminaire Tested: LDSQA3D20R709827D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

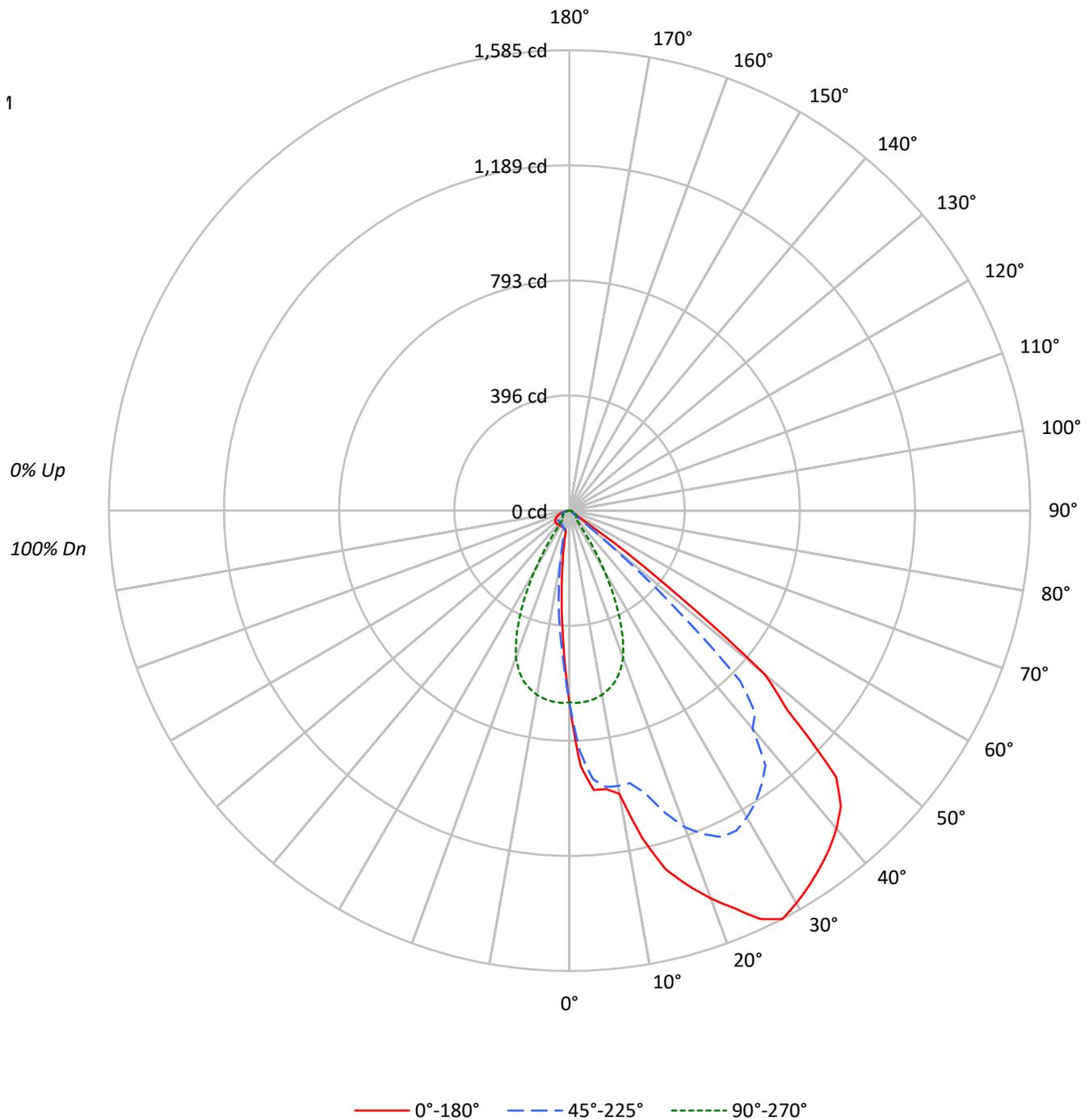
Test Method: LM-79-2019  
Report Number: P1317849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709827D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1253.0 lumens  
Efficiency: N/A  
Efficacy: 45.7 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
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: P1317849  
CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1317849

CATALOG NUMBER: LDSQA3D20R709827D010 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

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

	0°	45°	90°	135°	180°
0°	113615	113615	113615	113615	113615
5°	166899	160502	114049	68080	53334
10°	173043	168321	112640	32580	13186
15°	227901	179475	108494	11661	11411
20°	260306	212636	98749	11198	11473
25°	294750	235595	77531	10813	11345
30°	310449	242596	48066	10739	12151
35°	315662	242118	15852	11059	12846
40°	321246	220234	7666	11826	14074
45°	316165	202228	7964	12470	15247
50°	235029	37323	8011	13718	16772
55°	18796	5134	8527	14503	17926
60°	3927	5373	8336	14708	18600
65°	4075	5216	8110	14467	19112
70°	3575	5035	7855	13596	18631
75°	2861	4724	6654	13242	17966
80°	2777	4265	7042	12695	16960
85°	2766	5533	8497	11263	14030

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 319964 cd/sqm



TEST NUMBER: P1317849

CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.0	4.8
10°-20°	168.8	13.5
20°-30°	283.5	22.6
30°-40°	340.9	27.2
40°-50°	270.2	21.6
50°-60°	86.4	6.9
60°-70°	24.1	1.9
70°-80°	14.4	1.1
80°-90°	4.5	0.4
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°	512.3	40.9
0°-40°	853.2	68.1
0°-60°	1209.9	96.6
0°-90°	1253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	660	660	660	660	660	
5°	965	928	660	394	308	91
15°	1278	1007	608	65	64	360
25°	1551	1240	408	57	60	709
35°	1501	1152	75	53	61	940
45°	1298	830	33	51	63	932
55°	63	17	28	48	60	196
65°	10	13	20	36	47	10
75°	4	7	10	20	27	5
85°	1	3	4	6	7	1
90°	0	0	0	0	0	



TEST NUMBER: P1317849

CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7
2.5°	880.1	885.8	885.8	878.7	881.5	870.1	861.6	848.8	846.0	830.3	810.4
5°	965.4	962.5	962.5	956.8	959.7	955.4	951.2	948.3	939.8	928.4	917.0
7.5°	966.8	969.6	971.1	969.6	975.3	971.1	971.1	971.1	965.4	959.7	948.3
10°	989.5	985.3	981.0	971.1	965.4	961.1	961.1	962.5	965.4	962.5	955.4
12.5°	1153.1	1137.4	1130.3	1106.1	1087.7	1056.4	1020.8	993.8	969.6	961.1	955.4
15°	1278.2	1275.3	1261.1	1238.4	1215.6	1178.6	1137.4	1096.2	1052.1	1006.6	973.9
17.5°	1352.1	1346.4	1332.2	1308.0	1281.0	1246.9	1214.2	1182.9	1140.3	1089.1	1036.5
20°	1420.3	1407.5	1389.1	1360.6	1333.6	1300.9	1265.4	1235.5	1200.0	1160.2	1099.0
22.5°	1481.5	1470.1	1440.3	1401.9	1374.8	1343.6	1312.3	1283.9	1251.2	1205.7	1150.2
25°	1551.1	1525.6	1477.2	1427.5	1394.8	1369.2	1346.4	1323.7	1289.5	1239.8	1174.4
27.5°	1585.3	1549.7	1497.1	1447.4	1416.1	1389.1	1364.9	1342.1	1303.8	1242.6	1167.3
30°	1561.1	1541.2	1504.2	1465.8	1440.3	1414.7	1386.2	1352.1	1291.0	1219.9	1150.2
32.5°	1532.7	1522.7	1505.7	1482.9	1467.3	1441.7	1401.9	1346.4	1261.1	1191.4	1116.1
35°	1501.4	1497.1	1491.4	1481.5	1471.5	1447.4	1397.6	1316.6	1231.3	1151.6	1079.1
37.5°	1468.7	1464.4	1468.7	1467.3	1458.7	1427.5	1352.1	1276.7	1188.6	1107.6	966.8
40°	1428.9	1426.0	1433.1	1440.3	1430.3	1389.1	1308.0	1217.0	1138.8	979.6	931.3
42.5°	1382.0	1380.5	1393.3	1399.0	1384.8	1323.7	1228.4	1161.6	996.7	945.5	831.7
45°	1298.1	1300.9	1306.6	1313.7	1305.2	1238.4	1151.6	1029.4	956.8	830.3	473.4
47.5°	1016.6	1019.4	1047.8	1107.6	1148.8	1126.0	1052.1	961.1	855.9	474.9	149.3
50°	877.2	874.4	875.8	890.0	922.7	954.0	931.3	881.5	510.4	139.3	18.5
52.5°	385.3	428.0	473.4	601.4	683.9	770.6	787.7	551.6	166.3	18.5	18.5
55°	62.6	65.4	82.5	120.9	217.5	328.4	398.1	184.8	17.1	17.1	17.1
57.5°	12.8	12.8	12.8	14.2	21.3	45.5	52.6	15.6	15.6	15.6	17.1
60°	11.4	11.4	11.4	11.4	12.8	12.8	12.8	14.2	14.2	15.6	15.6
62.5°	11.4	11.4	11.4	11.4	11.4	11.4	12.8	12.8	14.2	14.2	15.6
65°	10.0	10.0	10.0	10.0	11.4	11.4	11.4	11.4	12.8	12.8	14.2
67.5°	8.5	8.5	8.5	8.5	10.0	10.0	10.0	11.4	11.4	11.4	12.8
70°	7.1	7.1	7.1	7.1	8.5	8.5	8.5	8.5	10.0	10.0	10.0
72.5°	5.7	5.7	5.7	5.7	7.1	7.1	7.1	7.1	8.5	8.5	8.5
75°	4.3	4.3	5.7	5.7	5.7	5.7	5.7	5.7	7.1	7.1	7.1
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.7	5.7	5.7
80°	2.8	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3	4.3	4.3
82.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P1317849

CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7
2.5°	797.6	777.7	750.7	662.5	581.5	507.6	470.6	466.3
5°	898.6	880.1	834.6	659.7	504.7	393.8	327.0	308.5
7.5°	936.9	921.3	881.5	654.0	432.2	282.9	207.6	179.1
10°	946.9	936.9	902.8	644.1	356.9	186.3	98.1	75.4
12.5°	951.2	944.1	911.4	628.4	281.5	96.7	66.8	66.8
15°	958.3	951.2	919.9	608.5	207.6	65.4	64.0	64.0
17.5°	989.5	966.8	931.3	578.7	136.5	62.6	62.6	62.6
20°	1040.7	991.0	936.9	538.8	85.3	61.1	61.1	62.6
22.5°	1083.4	1016.6	935.5	479.1	62.6	58.3	59.7	61.1
25°	1101.9	1027.9	922.7	408.0	54.0	56.9	59.7	59.7
27.5°	1099.0	1032.2	911.4	327.0	51.2	55.4	58.3	61.1
30°	1083.4	1020.8	885.8	241.7	48.3	54.0	58.3	61.1
32.5°	1056.4	976.8	834.6	156.4	46.9	54.0	58.3	61.1
35°	968.2	905.7	760.6	75.4	45.5	52.6	59.7	61.1
37.5°	917.0	830.3	580.1	37.0	44.1	52.6	59.7	61.1
40°	834.6	619.9	261.6	34.1	44.1	52.6	59.7	62.6
42.5°	524.6	254.5	42.7	32.7	42.7	52.6	59.7	62.6
45°	191.9	34.1	22.7	32.7	42.7	51.2	59.7	62.6
47.5°	19.9	19.9	21.3	31.3	41.2	51.2	59.7	62.6
50°	18.5	19.9	21.3	29.9	39.8	51.2	58.3	62.6
52.5°	18.5	19.9	21.3	29.9	38.4	49.8	58.3	62.6
55°	18.5	19.9	19.9	28.4	37.0	48.3	56.9	59.7
57.5°	17.1	18.5	19.9	27.0	35.5	45.5	55.4	58.3
60°	17.1	18.5	19.9	24.2	34.1	42.7	52.6	54.0
62.5°	15.6	17.1	18.5	22.7	31.3	39.8	48.3	51.2
65°	15.6	15.6	17.1	19.9	28.4	35.5	44.1	46.9
67.5°	12.8	14.2	14.2	17.1	24.2	31.3	39.8	42.7
70°	11.4	11.4	12.8	15.6	21.3	27.0	34.1	37.0
72.5°	10.0	10.0	10.0	12.8	18.5	24.2	29.9	32.7
75°	8.5	8.5	8.5	10.0	15.6	19.9	25.6	27.0
77.5°	7.1	7.1	7.1	8.5	12.8	17.1	19.9	22.7
80°	5.7	5.7	5.7	7.1	10.0	12.8	15.6	17.1
82.5°	4.3	4.3	4.3	5.7	7.1	8.5	11.4	11.4
85°	2.8	2.8	2.8	4.3	4.3	5.7	7.1	7.1
87.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)