

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: P1307536

Luminaire Tested: LDSQA3D20R709024D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

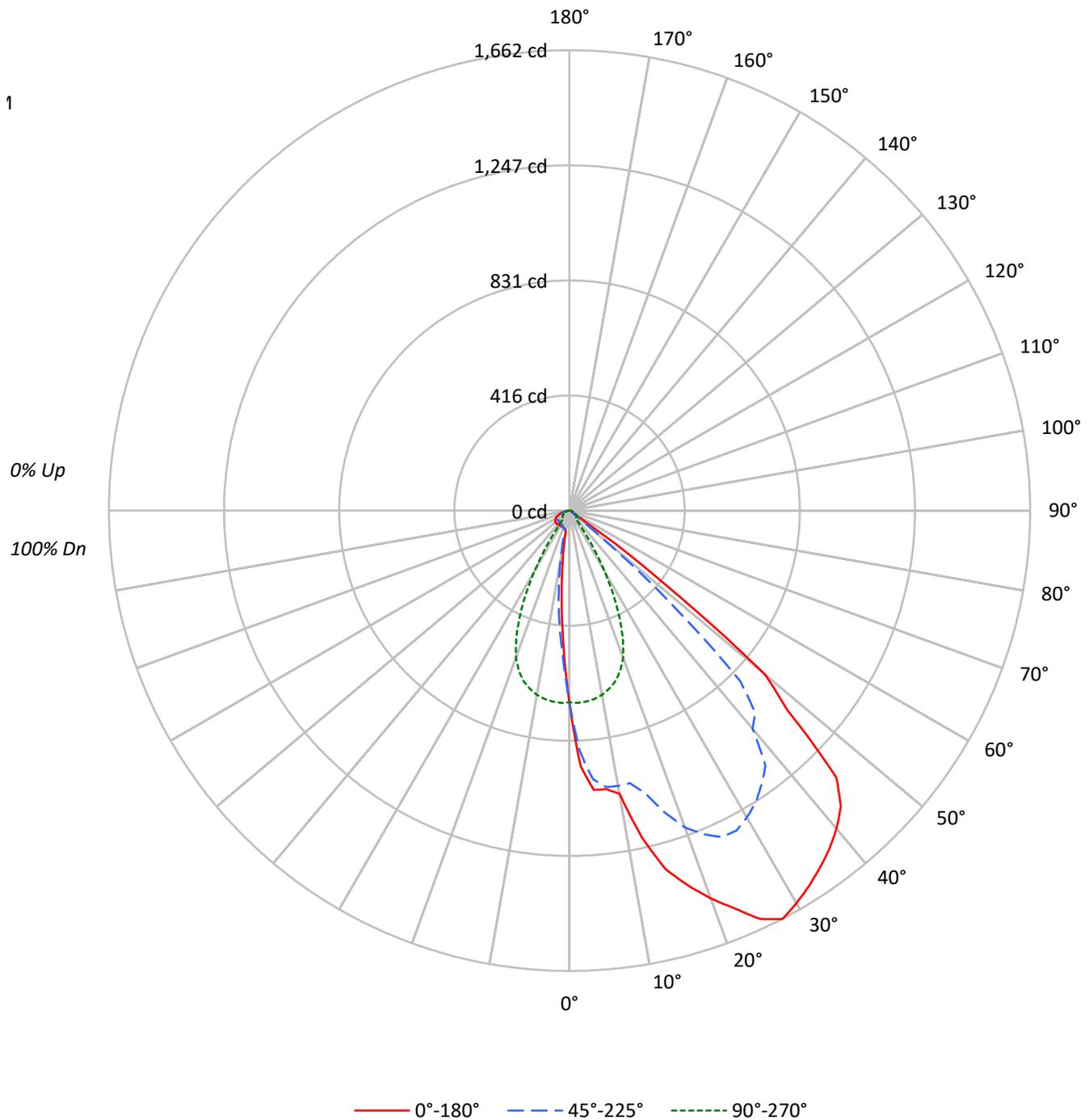
Test Method: LM-79-2019  
Report Number: P1307536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709024D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1314.0 lumens  
Efficiency: N/A  
Efficacy: 45.6 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): 28.8  
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: P1307536  
CATALOG NUMBER: LDSQA3D20R709024D010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1307536

CATALOG NUMBER: LDSQA3D20R709024D010 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

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

	0°	45°	90°	135°	180°
0°	119144	119144	119144	119144	119144
5°	175024	168316	119599	71400	55927
10°	181472	176523	118114	34154	13815
15°	238991	188211	113772	12231	11964
20°	272989	222973	103569	11748	12023
25°	309116	247054	81312	11326	11896
30°	325563	254409	50412	11276	12747
35°	331031	253913	16609	11606	13477
40°	336871	230958	8049	12410	14748
45°	331558	212067	8354	13079	15978
50°	246470	39145	8386	14388	17576
55°	19697	5375	8948	15223	18796
60°	4099	5649	8714	15397	19530
65°	4238	5461	8517	15200	20050
70°	3777	5237	8258	14250	19538
75°	2994	4991	6920	13907	18831
80°	2975	4463	7438	13290	17753
85°	2964	5928	8892	11856	14820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 335552 cd/sqm



TEST NUMBER: P1307536

CATALOG NUMBER: LDSQA3D20R709024D010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	4.8
10°-20°	177.1	13.5
20°-30°	297.3	22.6
30°-40°	357.5	27.2
40°-50°	283.4	21.6
50°-60°	90.7	6.9
60°-70°	25.3	1.9
70°-80°	15.1	1.1
80°-90°	4.8	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°	537.3	40.9
0°-40°	894.8	68.1
0°-60°	1268.8	96.6
0°-90°	1314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	692	692	692	692	692	
5°	1012	974	692	413	324	95
15°	1340	1056	638	69	67	377
25°	1627	1300	428	60	63	744
35°	1574	1208	79	55	64	986
45°	1361	871	34	54	66	978
55°	66	18	30	51	63	205
65°	10	13	21	37	49	10
75°	4	8	10	21	28	5
85°	2	3	4	6	8	1
90°	0	0	0	0	0	



TEST NUMBER: P1307536  
 CATALOG NUMBER: LDSQA3D20R709024D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8
2.5°	922.9	928.9	928.9	921.4	924.4	912.5	903.5	890.1	887.1	870.7	849.9
5°	1012.4	1009.4	1009.4	1003.4	1006.4	1001.9	997.5	994.5	985.5	973.6	961.7
7.5°	1013.9	1016.9	1018.3	1016.9	1022.8	1018.3	1018.3	1018.3	1012.4	1006.4	994.5
10°	1037.7	1033.3	1028.8	1018.3	1012.4	1007.9	1007.9	1009.4	1012.4	1009.4	1001.9
12.5°	1209.2	1192.8	1185.3	1160.0	1140.6	1107.8	1070.5	1042.2	1016.9	1007.9	1001.9
15°	1340.4	1337.4	1322.5	1298.6	1274.8	1236.0	1192.8	1149.5	1103.3	1055.6	1021.3
17.5°	1417.9	1412.0	1397.1	1371.7	1343.4	1307.6	1273.3	1240.5	1195.8	1142.1	1086.9
20°	1489.5	1476.1	1456.7	1426.9	1398.5	1364.2	1327.0	1295.7	1258.4	1216.6	1152.5
22.5°	1553.6	1541.7	1510.4	1470.1	1441.8	1409.0	1376.2	1346.4	1312.1	1264.4	1206.2
25°	1626.7	1599.8	1549.1	1496.9	1462.7	1435.8	1412.0	1388.1	1352.3	1300.1	1231.6
27.5°	1662.4	1625.2	1570.0	1517.8	1485.0	1456.7	1431.3	1407.5	1367.2	1303.1	1224.1
30°	1637.1	1616.2	1577.5	1537.2	1510.4	1483.5	1453.7	1417.9	1353.8	1279.3	1206.2
32.5°	1607.3	1596.8	1579.0	1555.1	1538.7	1511.9	1470.1	1412.0	1322.5	1249.4	1170.4
35°	1574.5	1570.0	1564.0	1553.6	1543.2	1517.8	1465.6	1380.7	1291.2	1207.7	1131.7
37.5°	1540.2	1535.7	1540.2	1538.7	1529.7	1496.9	1417.9	1338.9	1246.5	1161.5	1013.9
40°	1498.4	1495.5	1502.9	1510.4	1499.9	1456.7	1371.7	1276.3	1194.3	1027.3	976.6
42.5°	1449.2	1447.7	1461.2	1467.1	1452.2	1388.1	1288.2	1218.1	1045.2	991.5	872.2
45°	1361.3	1364.2	1370.2	1377.7	1368.7	1298.6	1207.7	1079.5	1003.4	870.7	496.5
47.5°	1066.1	1069.0	1098.9	1161.5	1204.7	1180.9	1103.3	1007.9	897.6	498.0	156.6
50°	919.9	917.0	918.4	933.4	967.6	1000.4	976.6	924.4	535.3	146.1	19.4
52.5°	404.1	448.8	496.5	630.7	717.2	808.1	826.0	578.5	174.4	19.4	19.4
55°	65.6	68.6	86.5	126.7	228.1	344.4	417.5	193.8	17.9	17.9	17.9
57.5°	13.4	13.4	13.4	14.9	22.4	47.7	55.2	16.4	16.4	16.4	17.9
60°	11.9	11.9	11.9	11.9	13.4	13.4	13.4	14.9	14.9	16.4	16.4
62.5°	11.9	11.9	11.9	11.9	11.9	11.9	13.4	13.4	14.9	14.9	16.4
65°	10.4	10.4	10.4	10.4	11.9	11.9	11.9	11.9	13.4	13.4	14.9
67.5°	8.9	8.9	8.9	8.9	10.4	10.4	10.4	11.9	11.9	11.9	13.4
70°	7.5	7.5	7.5	7.5	8.9	8.9	8.9	8.9	10.4	10.4	10.4
72.5°	6.0	6.0	6.0	6.0	7.5	7.5	7.5	7.5	8.9	8.9	8.9
75°	4.5	4.5	6.0	6.0	6.0	6.0	6.0	6.0	7.5	7.5	7.5
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0
80°	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5
82.5°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P1307536  
 CATALOG NUMBER: LDSQA3D20R709024D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	691.8	691.8	691.8	691.8	691.8	691.8	691.8	691.8
2.5°	836.4	815.6	787.2	694.8	609.8	532.3	493.5	489.0
5°	942.3	922.9	875.2	691.8	529.3	413.0	342.9	323.5
7.5°	982.6	966.2	924.4	685.9	453.3	296.7	217.7	187.9
10°	993.0	982.6	946.8	675.4	374.2	195.3	102.9	79.0
12.5°	997.5	990.0	955.7	659.0	295.2	101.4	70.1	70.1
15°	1004.9	997.5	964.7	638.1	217.7	68.6	67.1	67.1
17.5°	1037.7	1013.9	976.6	606.8	143.1	65.6	65.6	65.6
20°	1091.4	1039.2	982.6	565.1	89.5	64.1	64.1	65.6
22.5°	1136.1	1066.1	981.1	502.5	65.6	61.1	62.6	64.1
25°	1155.5	1078.0	967.6	427.9	56.7	59.6	62.6	62.6
27.5°	1152.5	1082.5	955.7	342.9	53.7	58.1	61.1	64.1
30°	1136.1	1070.5	928.9	253.5	50.7	56.7	61.1	64.1
32.5°	1107.8	1024.3	875.2	164.0	49.2	56.7	61.1	64.1
35°	1015.4	949.8	797.7	79.0	47.7	55.2	62.6	64.1
37.5°	961.7	870.7	608.3	38.8	46.2	55.2	62.6	64.1
40°	875.2	650.1	274.3	35.8	46.2	55.2	62.6	65.6
42.5°	550.2	266.9	44.7	34.3	44.7	55.2	62.6	65.6
45°	201.3	35.8	23.9	34.3	44.7	53.7	62.6	65.6
47.5°	20.9	20.9	22.4	32.8	43.2	53.7	62.6	65.6
50°	19.4	20.9	22.4	31.3	41.7	53.7	61.1	65.6
52.5°	19.4	20.9	22.4	31.3	40.3	52.2	61.1	65.6
55°	19.4	20.9	20.9	29.8	38.8	50.7	59.6	62.6
57.5°	17.9	19.4	20.9	28.3	37.3	47.7	58.1	61.1
60°	17.9	19.4	20.9	25.3	35.8	44.7	55.2	56.7
62.5°	16.4	17.9	19.4	23.9	32.8	41.7	50.7	53.7
65°	16.4	16.4	17.9	20.9	29.8	37.3	46.2	49.2
67.5°	13.4	14.9	14.9	17.9	25.3	32.8	41.7	44.7
70°	11.9	11.9	13.4	16.4	22.4	28.3	35.8	38.8
72.5°	10.4	10.4	10.4	13.4	19.4	25.3	31.3	34.3
75°	8.9	8.9	8.9	10.4	16.4	20.9	26.8	28.3
77.5°	7.5	7.5	7.5	8.9	13.4	17.9	20.9	23.9
80°	6.0	6.0	6.0	7.5	10.4	13.4	16.4	17.9
82.5°	4.5	4.5	4.5	6.0	7.5	8.9	11.9	11.9
85°	3.0	3.0	3.0	4.5	4.5	6.0	7.5	7.5
87.5°	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)