

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: P1316004

Luminaire Tested: LDSQA3D20R709735D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

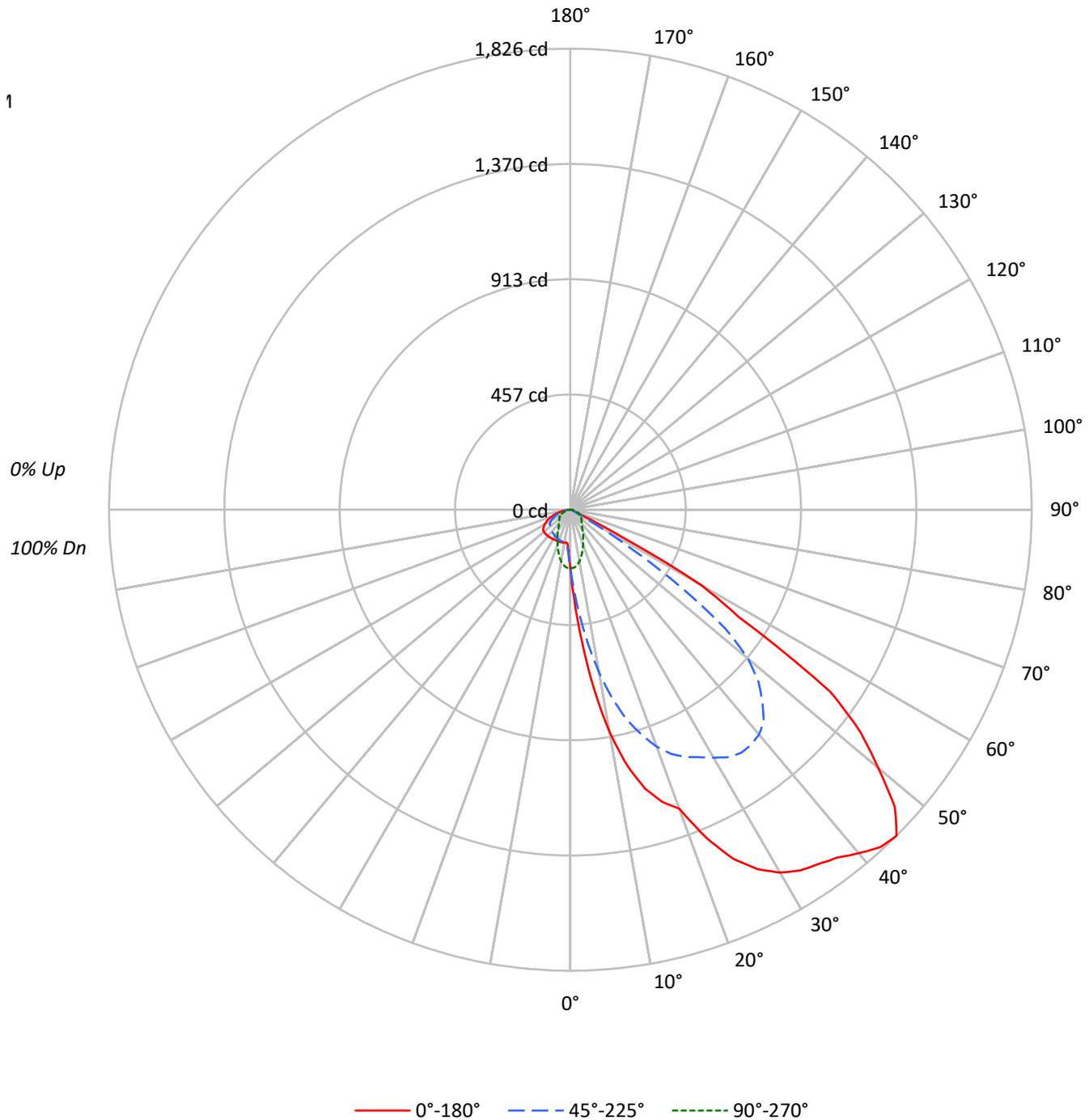
Test Method: LM-79-2019  
Report Number: P1316004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709735D010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1578.0 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
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

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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	100	100	100	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25	25

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

	0°	45°	90°	135°	180°
0°	39594	39594	39594	39594	39594
5°	90088	72126	39192	24774	23131
10°	156115	114529	36340	22577	23119
15°	203795	152980	31719	23018	23856
20°	230836	182946	27125	23368	24816
25°	289905	205229	22746	23639	25426
30°	329998	225414	19409	24103	26926
35°	360129	247269	16883	24494	28467
40°	399259	261219	15580	25495	30800
45°	444813	261510	15344	26840	33368
50°	426037	245934	15192	28267	36278
55°	377218	159318	15614	29786	39244
60°	206598	34169	15741	30380	40679
65°	14752	8354	15404	30156	41077
70°	7150	7906	14250	28551	39629
75°	6255	8384	13641	27216	36664
80°	6248	7835	12497	24993	34316
85°	6126	9287	12449	21736	31024

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 444813 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.0	1.9
10°-20°	128.2	8.1
20°-30°	246.0	15.6
30°-40°	347.9	22.1
40°-50°	393.6	24.9
50°-60°	311.7	19.8
60°-70°	84.0	5.3
70°-80°	27.9	1.8
80°-90°	8.5	0.5
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°	404.3	25.6
0°-40°	752.2	47.7
0°-60°	1457.5	92.4
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	230	230	230	230	230	
5°	521	417	227	143	134	62
15°	1143	858	178	129	134	322
25°	1526	1080	120	124	134	699
35°	1713	1176	80	116	135	1079
45°	1826	1074	63	110	137	1366
55°	1256	531	52	99	131	1020
65°	36	20	38	74	101	130
75°	9	13	20	41	55	10
85°	3	5	6	11	16	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9	229.9
2.5°	357.4	357.4	355.8	349.5	346.4	338.5	332.2	314.9	272.4	231.4	198.4
5°	521.1	529.0	518.0	516.4	506.9	492.8	483.3	417.2	314.9	226.7	170.0
7.5°	714.8	717.9	714.8	699.0	684.9	661.2	639.2	535.3	357.4	218.8	149.6
10°	892.7	887.9	878.5	867.5	847.0	821.8	784.0	654.9	398.3	207.8	137.0
12.5°	1037.5	1035.9	1024.9	1013.9	988.7	955.6	917.9	763.6	433.0	193.6	130.7
15°	1143.0	1143.0	1132.0	1119.4	1095.8	1069.0	1026.5	858.0	461.3	177.9	124.4
17.5°	1213.8	1210.7	1202.8	1193.4	1174.5	1147.7	1114.7	933.6	480.2	162.2	122.8
20°	1259.5	1257.9	1251.6	1237.5	1221.7	1201.2	1171.3	998.2	488.1	148.0	121.2
22.5°	1405.9	1393.3	1369.7	1339.8	1302.0	1253.2	1212.3	1047.0	484.9	132.2	118.1
25°	1525.6	1520.8	1495.7	1459.4	1409.1	1346.1	1278.4	1080.0	469.2	119.7	114.9
27.5°	1604.3	1596.4	1572.8	1533.4	1479.9	1418.5	1355.5	1105.2	447.1	108.6	110.2
30°	1659.4	1654.7	1631.1	1587.0	1531.9	1464.2	1399.6	1133.5	417.2	97.6	105.5
32.5°	1694.0	1689.3	1665.7	1626.3	1572.8	1502.0	1428.0	1161.9	381.0	88.2	100.8
35°	1712.9	1708.2	1681.4	1646.8	1596.4	1527.1	1448.4	1176.1	336.9	80.3	96.0
37.5°	1736.5	1727.1	1690.9	1648.4	1598.0	1533.4	1454.7	1174.5	292.8	74.0	92.9
40°	1775.9	1750.7	1698.7	1642.1	1590.1	1525.6	1450.0	1161.9	244.0	69.3	89.7
42.5°	1813.7	1777.5	1700.3	1632.6	1574.4	1511.4	1432.7	1133.5	190.5	66.1	88.2
45°	1826.3	1772.7	1678.3	1610.6	1555.5	1490.9	1409.1	1073.7	129.1	63.0	85.0
47.5°	1742.8	1703.5	1624.8	1574.4	1522.4	1459.4	1374.4	1010.7	74.0	59.8	81.9
50°	1590.1	1564.9	1520.8	1489.4	1461.0	1416.9	1333.5	917.9	44.1	56.7	78.7
52.5°	1448.4	1440.6	1409.1	1383.9	1368.1	1347.7	1272.1	774.6	36.2	55.1	75.6
55°	1256.3	1231.2	1223.3	1213.8	1246.9	1245.3	1143.0	530.6	34.6	52.0	72.4
57.5°	788.8	799.8	840.7	916.3	1006.0	1058.0	1054.8	283.4	33.1	48.8	67.7
60°	599.8	598.3	610.9	642.3	708.5	782.5	851.7	99.2	31.5	45.7	64.5
62.5°	179.5	184.2	222.0	325.9	390.4	481.8	439.3	23.6	29.9	40.9	58.3
65°	36.2	37.8	37.8	42.5	52.0	78.7	96.0	20.5	28.3	37.8	53.5
67.5°	15.7	15.7	15.7	17.3	17.3	20.5	17.3	18.9	25.2	33.1	47.2
70°	14.2	14.2	14.2	14.2	14.2	14.2	15.7	15.7	22.0	28.3	40.9
72.5°	11.0	11.0	11.0	12.6	12.6	12.6	12.6	14.2	18.9	23.6	34.6
75°	9.4	9.4	9.4	9.4	11.0	11.0	11.0	12.6	15.7	20.5	28.3
77.5°	7.9	7.9	7.9	7.9	7.9	9.4	9.4	9.4	12.6	15.7	23.6
80°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	9.4	12.6	17.3
82.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	7.9	9.4	12.6
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	6.3	7.9
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1	4.7
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):**

	135°	157.5°	180°
0°	229.9	229.9	229.9
2.5°	174.8	165.3	160.6
5°	143.3	135.4	133.8
7.5°	132.2	130.7	130.7
10°	129.1	130.7	132.2
12.5°	129.1	132.2	133.8
15°	129.1	132.2	133.8
17.5°	129.1	132.2	133.8
20°	127.5	132.2	135.4
22.5°	125.9	132.2	133.8
25°	124.4	132.2	133.8
27.5°	122.8	130.7	133.8
30°	121.2	130.7	135.4
32.5°	118.1	130.7	135.4
35°	116.5	130.7	135.4
37.5°	114.9	130.7	137.0
40°	113.4	130.7	137.0
42.5°	111.8	130.7	137.0
45°	110.2	129.1	137.0
47.5°	107.1	129.1	137.0
50°	105.5	127.5	135.4
52.5°	102.3	125.9	135.4
55°	99.2	122.8	130.7
57.5°	94.5	118.1	124.4
60°	88.2	111.8	118.1
62.5°	80.3	103.9	108.6
65°	74.0	94.5	100.8
67.5°	64.5	83.4	89.7
70°	56.7	72.4	78.7
72.5°	48.8	61.4	67.7
75°	40.9	50.4	55.1
77.5°	31.5	40.9	44.1
80°	25.2	31.5	34.6
82.5°	17.3	22.0	23.6
85°	11.0	14.2	15.7
87.5°	4.7	6.3	6.3
90°	0.0	0.0	0.0

(END OF REPORT)