

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: P1315659

Luminaire Tested: LDSQA3D13R459735DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

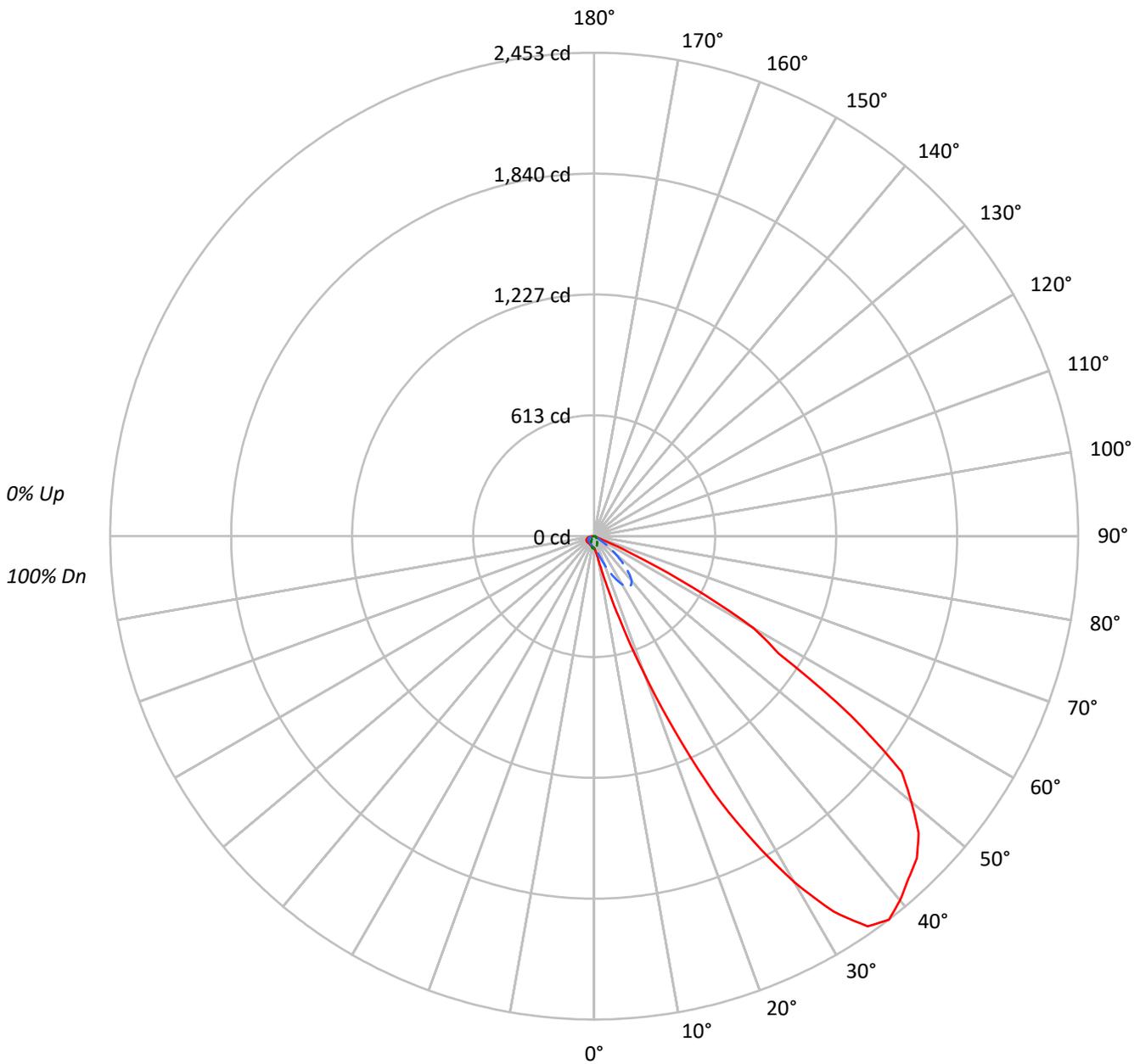
Test Method: LM-79-2019  
Report Number: P1315659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459735DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1096.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
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 (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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	38	38	38	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	33	33	33	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	28	28	28	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	24	24	24	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	21	21	21	19

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

	0°	45°	90°	135°	180°
0°	10919	10919	10919	10919	10919
5°	13001	12050	10805	10027	10027
10°	20741	14095	10143	9496	9496
15°	51671	18900	9200	8879	9200
20°	136100	28224	7972	8467	8962
25°	273277	41825	6879	7924	8779
30°	402862	56001	5588	7736	9009
35°	508162	65681	4752	7611	9335
40°	542178	66367	4272	7936	9982
45°	563329	55361	3970	8598	10814
50°	562440	38582	3885	9217	12137
55°	478016	17145	4084	10329	13332
60°	321299	3444	4064	11539	15293
65°	85252	1467	4075	12551	17360
70°	2266	1813	4129	13696	19588
75°	1797	1797	4192	14440	22291
80°	1785	2678	4463	15274	25191
85°	1778	3557	7114	16203	25096

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 47.5°  
 Luminance: 577831 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.3	0.6
10°-20°	30.9	2.8
20°-30°	127.5	11.6
30°-40°	268.7	24.5
40°-50°	331.5	30.2
50°-60°	248.5	22.7
60°-70°	63.9	5.8
70°-80°	13.2	1.2
80°-90°	5.4	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°	164.7	15.0
0°-40°	433.4	39.5
0°-60°	1013.4	92.5
0°-90°	1096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	75	70	62	58	58	8
15°	290	106	52	50	52	106
25°	1438	220	36	42	46	670
35°	2417	312	23	36	44	1473
45°	2313	227	16	35	44	1770
55°	1592	57	14	34	44	1375
65°	209	4	10	31	43	302
75°	3	3	6	22	34	3
85°	1	2	4	8	13	1
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°	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
2.5°	67.0	67.0	67.0	67.0	67.0	67.0	67.0	66.1	65.2	63.4	61.6
5°	75.2	74.3	74.3	74.3	73.4	72.4	72.4	69.7	66.1	62.5	59.8
7.5°	88.7	88.7	87.8	86.0	85.1	83.3	81.5	74.3	66.1	60.7	57.1
10°	118.6	116.8	114.1	112.3	107.8	101.4	96.9	80.6	65.2	58.0	55.2
12.5°	177.5	181.1	172.1	163.0	150.3	138.6	124.1	91.5	65.2	55.2	52.5
15°	289.8	296.1	278.9	260.8	230.0	201.0	173.9	106.0	63.4	51.6	48.9
17.5°	473.6	481.8	452.8	410.2	362.2	304.3	254.5	125.9	61.6	48.0	46.2
20°	742.6	741.7	685.5	632.1	539.7	454.6	361.3	154.0	58.9	43.5	43.5
22.5°	1073.1	1076.8	1007.9	911.9	780.6	643.9	495.4	186.6	55.2	39.8	40.8
25°	1438.1	1407.3	1325.8	1209.0	1041.4	852.2	656.6	220.1	51.6	36.2	38.0
27.5°	1742.4	1712.5	1619.2	1480.7	1300.4	1075.9	820.5	253.6	47.1	32.6	35.3
30°	2025.8	1987.8	1875.5	1718.8	1504.2	1261.5	974.4	281.6	41.7	28.1	32.6
32.5°	2259.5	2225.1	2097.4	1915.3	1681.7	1420.9	1104.8	303.4	36.2	25.4	30.8
35°	2417.0	2381.7	2264.0	2063.9	1809.4	1536.8	1210.8	312.4	31.7	22.6	29.9
37.5°	2453.3	2434.2	2350.0	2162.6	1897.2	1611.1	1278.7	309.7	26.3	20.8	28.1
40°	2411.6	2416.1	2376.3	2220.5	1944.3	1642.8	1306.8	295.2	21.7	19.0	27.2
42.5°	2358.2	2370.0	2367.2	2244.1	1964.2	1644.6	1295.0	266.2	17.2	17.2	26.3
45°	2312.9	2324.7	2341.0	2234.1	1950.7	1621.0	1257.9	227.3	12.7	16.3	26.3
47.5°	2230.5	2243.2	2266.7	2154.4	1881.8	1560.3	1190.9	184.7	9.1	15.4	25.4
50°	2099.2	2105.5	2099.2	1973.3	1749.6	1462.5	1082.2	144.0	6.3	14.5	25.4
52.5°	1964.2	1951.6	1899.0	1739.7	1539.5	1307.7	945.4	102.3	4.5	13.6	24.5
55°	1592.0	1572.1	1533.2	1435.4	1321.3	1117.5	764.3	57.1	4.5	13.6	23.5
57.5°	1109.4	1120.2	1133.8	1113.9	1061.4	880.2	580.5	25.4	4.5	12.7	23.5
60°	932.8	923.7	924.6	911.9	825.0	642.1	399.4	10.0	4.5	11.8	22.6
62.5°	556.9	563.3	575.1	577.8	491.7	358.6	209.2	4.5	4.5	10.9	21.7
65°	209.2	219.2	192.0	166.6	132.2	96.9	48.9	3.6	5.4	10.0	19.9
67.5°	6.3	7.2	9.1	8.2	8.2	7.2	5.4	3.6	5.4	9.1	19.0
70°	4.5	4.5	4.5	4.5	4.5	3.6	3.6	3.6	4.5	8.2	17.2
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.5	7.2	15.4
75°	2.7	3.6	2.7	2.7	2.7	2.7	2.7	2.7	4.5	6.3	12.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6	5.4	10.9
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.7	3.6	4.5	9.1
82.5°	1.8	1.8	1.8	0.9	1.8	1.8	1.8	1.8	3.6	3.6	7.2
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	2.7	3.6	4.5
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	1.8	2.7	2.7	2.7
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°	63.4	63.4	63.4
2.5°	59.8	59.8	59.8
5°	58.0	58.0	58.0
7.5°	56.1	56.1	56.1
10°	54.3	54.3	54.3
12.5°	52.5	52.5	53.4
15°	49.8	51.6	51.6
17.5°	48.0	49.8	50.7
20°	46.2	48.0	48.9
22.5°	43.5	46.2	48.0
25°	41.7	45.3	46.2
27.5°	39.8	44.4	46.2
30°	38.9	43.5	45.3
32.5°	37.1	42.6	44.4
35°	36.2	42.6	44.4
37.5°	36.2	41.7	44.4
40°	35.3	41.7	44.4
42.5°	35.3	41.7	44.4
45°	35.3	41.7	44.4
47.5°	34.4	41.7	45.3
50°	34.4	42.6	45.3
52.5°	34.4	42.6	45.3
55°	34.4	42.6	44.4
57.5°	33.5	41.7	44.4
60°	33.5	41.7	44.4
62.5°	31.7	40.8	43.5
65°	30.8	39.8	42.6
67.5°	29.0	38.9	40.8
70°	27.2	36.2	38.9
72.5°	24.5	34.4	37.1
75°	21.7	31.7	33.5
77.5°	19.0	28.1	29.9
80°	15.4	23.5	25.4
82.5°	11.8	18.1	19.0
85°	8.2	11.8	12.7
87.5°	3.6	5.4	6.3
90°	0.0	0.0	0.0

(END OF REPORT)