

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: P1323414

Luminaire Tested: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

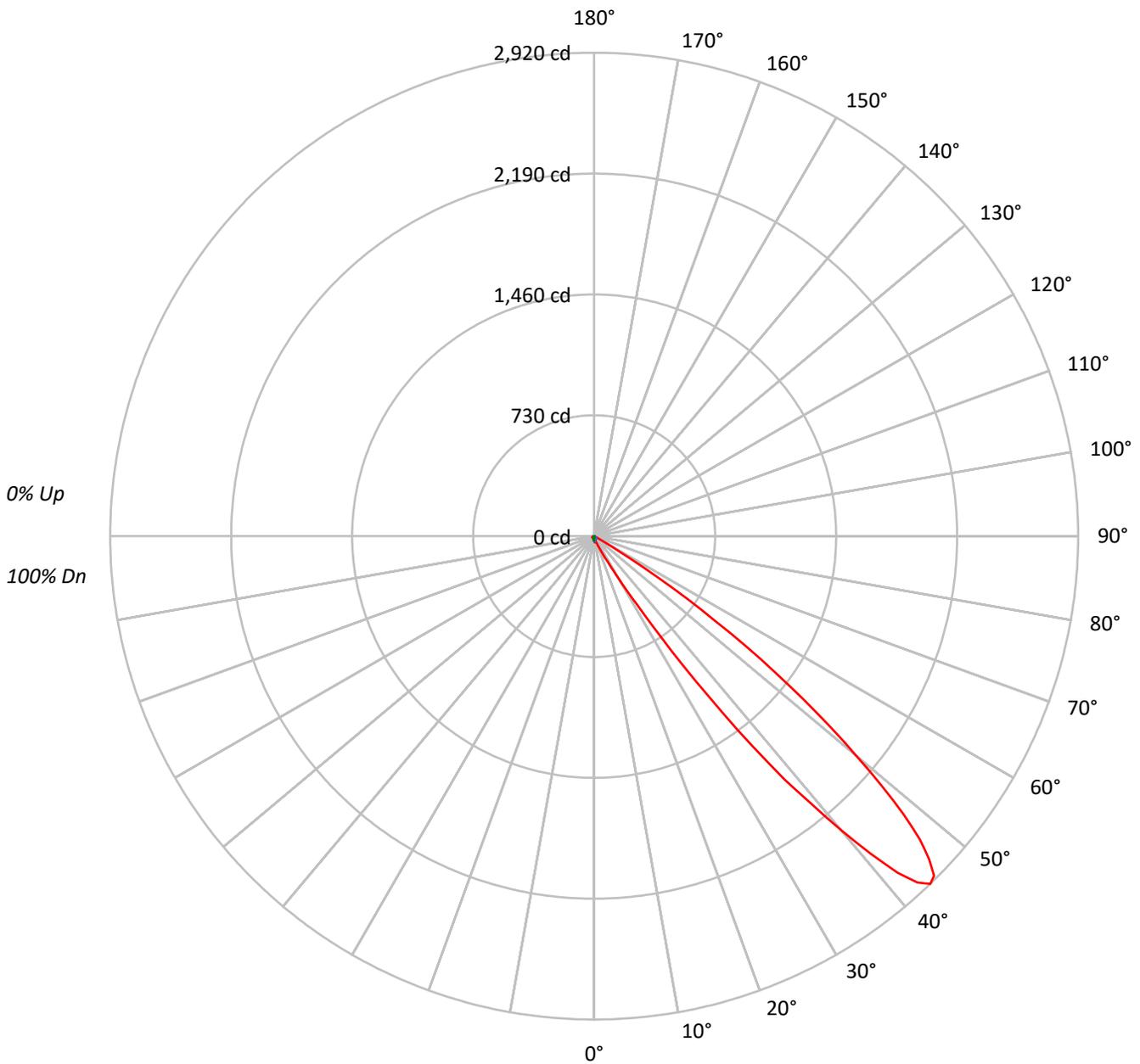
Test Method: LM-79-2019  
Report Number: P1323414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 326.1 lumens  
Efficiency: N/A  
Efficacy: 45.3 lumens/watt  
Spacing Criteria (0/90/45): 3.26 / 0.48 / 1.09  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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: P1323414  
CATALOG NUMBER: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1323414

CATALOG NUMBER: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

**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	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	53	53	53	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	37	35
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	26	26	26	24
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	19	19	19	17

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

	0°	45°	90°	135°	180°
0°	4977	4977	4977	4977	4977
5°	6189	5515	4495	3942	3873
10°	6086	4722	3463	3078	3130
15°	5046	3370	2496	2550	2728
20°	8761	2676	1906	2199	2511
25°	19516	3211	1539	2033	2356
30°	58367	3938	1352	2009	2466
35°	224710	4436	1240	2060	2607
40°	521562	3867	1169	2113	2788
45°	706420	2923	1023	2289	3020
50°	553893	1742	1045	2438	3322
55°	265851	781	991	2642	3603
60°	24283	103	896	2790	4030
65°	2649	0	815	2934	4360
70°	655	0	1007	3122	4733
75°	665	200	1331	3460	5390
80°	694	694	1587	3570	5852
85°	593	593	2569	3162	6521

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 706420 cd/sqm



TEST NUMBER: P1323414

CATALOG NUMBER: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.5	0.8
10°-20°	5.1	1.6
20°-30°	12.3	3.8
30°-40°	67.4	20.7
40°-50°	163.3	50.1
50°-60°	65.2	20.0
60°-70°	5.6	1.7
70°-80°	3.2	1.0
80°-90°	1.4	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°	19.9	6.1
0°-40°	87.4	26.8
0°-60°	315.8	96.9
0°-90°	326.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	326.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	36	32	26	23	22	3
15°	28	19	14	14	15	10
25°	103	17	8	11	12	62
35°	1069	21	6	10	12	755
45°	2900	12	4	9	12	2046
55°	885	3	3	9	12	825
65°	6	0	2	7	11	17
75°	1	0	2	5	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	



TEST NUMBER: P1323414

CATALOG NUMBER: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
2.5°	32.5	32.5	32.8	32.5	32.5	32.5	32.5	32.2	32.2	32.2	31.2
5°	35.8	35.8	35.8	35.8	35.4	35.4	35.4	35.1	35.1	34.8	31.9
7.5°	37.1	37.1	36.7	36.7	36.4	36.4	36.1	35.8	35.4	35.1	30.6
10°	34.8	34.8	34.8	34.5	34.5	34.1	33.8	33.5	33.2	32.5	27.0
12.5°	30.9	30.9	31.2	30.9	30.6	30.2	29.6	29.3	28.9	28.3	22.4
15°	28.3	28.3	28.3	28.0	27.6	27.0	26.7	26.0	25.7	24.7	18.9
17.5°	36.1	36.1	35.8	35.1	33.8	32.8	31.2	29.9	28.3	26.3	16.3
20°	47.8	47.8	47.1	46.5	44.9	43.2	40.6	38.4	35.8	33.5	14.6
22.5°	69.2	70.2	68.3	66.0	63.7	59.8	56.2	52.7	48.1	44.2	15.0
25°	102.7	103.7	102.7	97.5	93.3	88.1	81.3	74.1	66.3	59.2	16.9
27.5°	166.4	167.1	165.5	152.8	145.9	132.3	120.3	108.6	95.6	82.6	18.5
30°	293.5	293.8	283.4	258.1	235.7	205.8	180.4	156.0	135.5	114.7	19.8
31°	386.5	377.4	355.3	324.7	289.0	248.7	213.9	182.4	151.8	129.4	20.2
32°	490.8	489.5	452.8	399.8	352.0	301.6	249.3	209.0	173.9	143.3	20.5
33°	629.0	629.6	571.8	509.4	431.0	363.4	294.8	239.6	197.3	159.9	21.1
34°	844.8	794.1	726.2	641.7	535.0	433.3	344.2	275.0	218.4	175.9	21.1
35°	1068.8	1017.7	943.0	814.9	668.6	526.3	403.1	313.0	243.8	193.1	21.1
36°	1319.7	1276.5	1163.4	999.9	813.3	614.0	465.5	356.9	268.8	208.7	20.8
37°	1590.8	1527.4	1402.0	1223.5	973.9	737.5	541.5	400.5	293.8	225.6	20.2
38°	1866.1	1808.9	1650.6	1434.5	1165.6	867.9	617.6	442.4	316.9	238.3	19.2
39°	2074.8	2043.6	1886.6	1645.1	1318.7	991.4	695.9	487.3	341.3	250.9	18.2
40°	2319.9	2269.5	2120.6	1821.9	1499.8	1117.2	772.7	526.9	361.5	261.0	17.2
41°	2543.5	2479.8	2291.9	2003.3	1644.8	1230.3	845.5	567.9	377.7	266.9	16.6
42°	2735.3	2661.2	2464.9	2158.7	1766.0	1320.7	903.6	597.1	393.0	271.7	15.6
43°	2859.5	2795.5	2602.4	2275.4	1869.7	1403.6	957.9	627.7	402.4	275.0	14.3
44°	2919.9	2855.3	2668.4	2348.5	1933.4	1453.3	993.0	648.8	412.8	279.2	13.3
45°	2900.4	2834.8	2654.1	2349.8	1953.2	1471.2	1008.0	658.2	418.3	283.1	12.0
46°	2811.1	2764.9	2582.9	2288.7	1915.5	1452.0	999.5	651.1	416.4	283.1	10.7
47°	2685.6	2632.9	2459.7	2183.7	1824.2	1402.6	965.4	629.3	404.4	276.6	9.4
48°	2514.6	2469.8	2287.7	2017.0	1684.1	1295.0	888.4	593.9	385.5	263.9	8.1
49°	2300.1	2237.7	2068.3	1803.7	1501.4	1142.2	787.3	534.1	355.3	246.1	7.2
50°	2067.3	1990.3	1859.6	1590.2	1312.6	979.4	654.3	451.5	312.7	222.7	6.5
51°	1839.5	1761.1	1636.6	1407.5	1111.0	812.6	527.9	360.5	257.4	190.5	5.5
52°	1603.2	1537.5	1398.1	1218.0	951.1	658.6	439.8	304.9	213.9	159.9	4.6
53°	1367.8	1323.0	1190.3	1008.0	764.2	538.0	359.2	261.0	186.6	136.8	3.6
54°	1132.2	1083.1	982.3	819.8	616.0	424.5	304.6	218.4	161.9	119.3	3.3
55°	885.4	860.1	767.1	625.1	466.8	338.7	247.0	187.9	135.5	99.8	2.6
56°	682.0	653.4	568.5	453.4	346.8	265.2	199.9	153.4	114.7	83.5	2.0
57°	446.6	417.4	361.1	316.6	252.6	193.4	152.8	120.9	93.3	69.2	1.6
58°	263.9	237.3	228.5	195.0	168.4	131.3	112.8	90.0	68.9	54.6	1.0
59°	121.2	123.2	109.5	102.7	93.3	83.5	68.6	60.1	47.1	39.3	0.7
60°	70.5	66.6	65.0	58.2	51.7	45.8	41.3	36.4	29.6	25.4	0.3
62.5°	24.1	23.1	23.7	21.5	20.2	19.5	17.9	15.3	12.7	10.4	0.0
65°	6.5	6.5	6.2	5.9	5.5	5.2	4.9	4.2	3.9	3.3	0.0



TEST NUMBER: P1323414

CATALOG NUMBER: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.3	2.3	2.0	2.0	1.6	1.6	1.3	1.3	1.0	1.0	0.0
70°	1.3	1.3	1.3	1.0	1.0	1.0	0.7	0.7	0.7	0.3	0.0
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.3	0.3
75°	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.7
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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: P1323414

CATALOG NUMBER: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	28.9	28.9	28.9	28.9	28.9	28.9
2.5°	29.9	28.6	27.0	26.0	25.7	25.4
5°	28.6	26.0	24.1	22.8	22.4	22.4
7.5°	25.7	22.8	20.8	20.2	19.8	19.8
10°	22.4	19.8	18.2	17.6	17.9	17.9
12.5°	18.9	16.6	15.9	15.9	16.3	16.6
15°	15.3	14.0	14.0	14.3	15.0	15.3
17.5°	12.7	12.0	12.4	13.0	13.7	14.3
20°	10.4	10.4	11.1	12.0	13.0	13.7
22.5°	8.8	9.1	10.1	11.1	12.4	13.0
25°	7.5	8.1	9.1	10.7	12.0	12.4
27.5°	6.5	7.5	8.8	10.4	11.7	12.4
30°	5.5	6.8	8.5	10.1	11.7	12.4
31°	5.2	6.5	8.1	10.1	11.7	12.4
32°	4.9	6.5	8.1	10.1	11.7	12.4
33°	4.6	6.2	8.1	9.8	11.7	12.4
34°	4.2	6.2	8.1	10.1	11.7	12.4
35°	3.9	5.9	7.8	9.8	11.4	12.4
36°	3.6	5.9	7.8	9.8	11.7	12.4
37°	3.3	5.9	7.8	9.8	11.4	12.4
38°	3.3	5.5	7.5	9.8	11.4	12.4
39°	2.9	5.2	7.5	9.8	11.4	12.4
40°	2.6	5.2	7.2	9.4	11.4	12.4
41°	2.3	4.9	7.2	9.4	11.4	12.4
42°	2.0	4.9	7.2	9.4	11.4	12.4
43°	1.6	4.6	6.8	9.4	11.4	12.4
44°	1.6	4.6	6.8	9.4	11.4	12.4
45°	1.3	4.2	6.5	9.4	11.4	12.4
46°	1.3	4.2	6.5	9.1	11.4	12.4
47°	1.0	4.2	6.5	9.1	11.4	12.4
48°	1.0	3.9	6.5	9.1	11.4	12.4
49°	0.7	3.9	6.5	9.1	11.4	12.4
50°	0.7	3.9	6.2	9.1	11.4	12.4
51°	0.7	3.9	6.2	9.1	11.4	12.4
52°	0.7	3.6	6.2	9.1	11.4	12.4
53°	0.7	3.6	6.2	9.1	11.4	12.4
54°	0.7	3.6	5.9	9.1	11.4	12.4
55°	0.7	3.3	5.9	8.8	11.4	12.0
56°	0.7	3.3	5.9	8.8	11.4	12.0
57°	0.7	3.3	5.5	8.8	11.4	12.0
58°	0.7	2.9	5.5	8.5	11.1	12.0
59°	0.7	2.9	5.2	8.5	11.1	11.7
60°	0.7	2.6	5.2	8.1	10.7	11.7
62.5°	0.7	2.3	4.6	7.8	10.4	11.1
65°	0.7	2.0	4.2	7.2	10.1	10.7



TEST NUMBER: P1323414

CATALOG NUMBER: LDSQA3D02R159030D2WDE010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	2.0	3.9	6.8	9.4	10.4
70°	0.7	2.0	3.6	6.2	9.1	9.4
72.5°	1.0	2.0	3.3	5.9	8.5	8.8
75°	1.3	2.0	2.9	5.2	7.8	8.1
77.5°	1.3	2.0	2.6	4.6	6.8	7.2
80°	1.3	1.6	2.3	3.6	5.5	5.9
82.5°	1.3	1.6	1.6	2.9	4.2	4.6
85°	1.0	1.3	1.3	1.6	2.9	3.3
87.5°	1.0	1.3	0.7	1.0	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)