

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: P1316588

Luminaire Tested: LDSQA3D13R309740DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

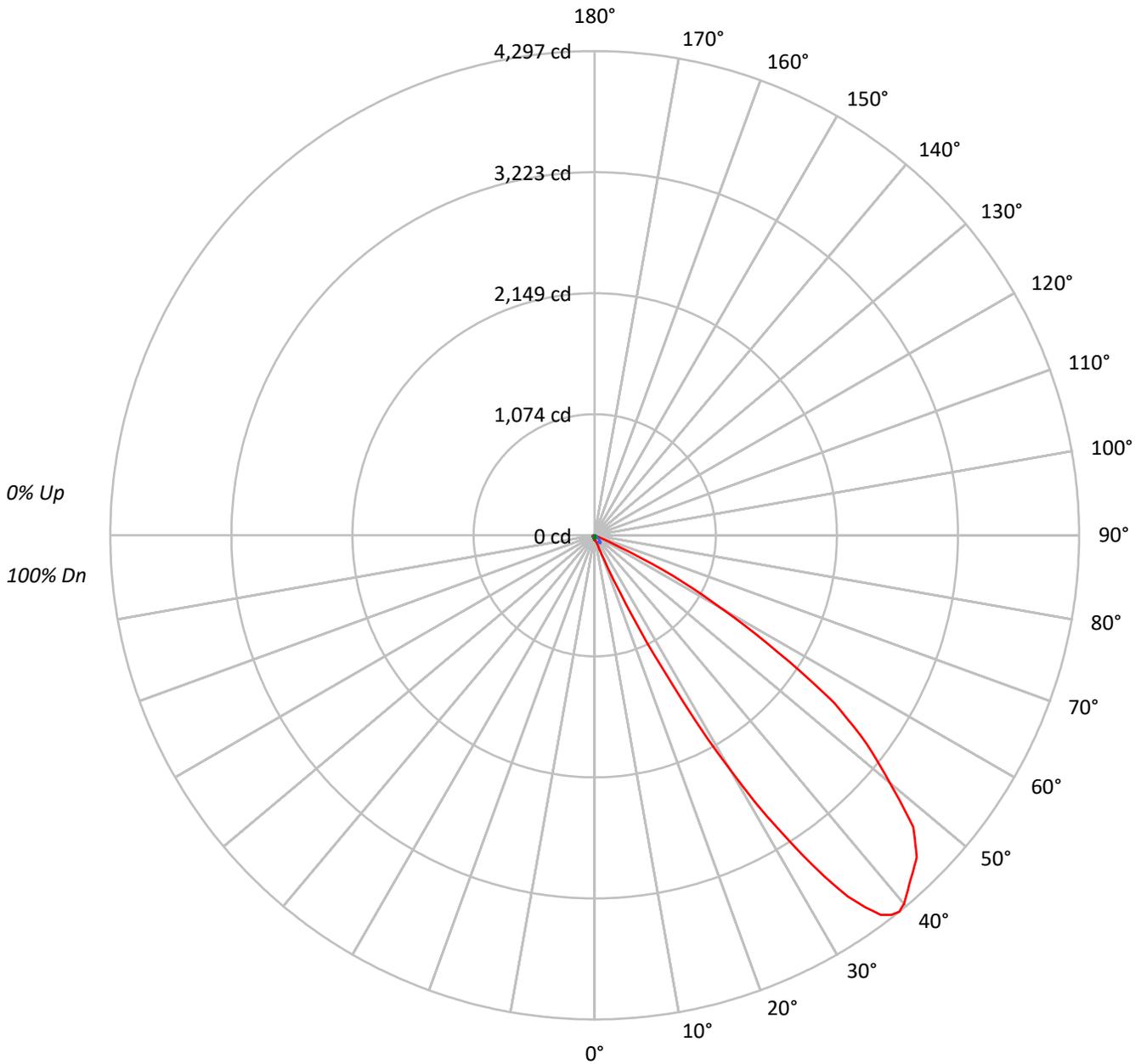
Test Method: LM-79-2019  
Report Number: P1316588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309740DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1117.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
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

TEST NUMBER: P1316588  
CATALOG NUMBER: LDSQA3D13R309740DE010 3LSQCA45R 1MB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1316588

CATALOG NUMBER: LDSQA3D13R309740DE010 3LSQCA45R 1MB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50	50	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42	42	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35	35	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24	24	24	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17	17	17	17

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

	0°	45°	90°	135°	180°
0°	7457	7457	7457	7457	7457
5°	7970	7814	7313	6673	6500
10°	8726	7730	6418	5754	5596
15°	12748	7720	5367	4868	5028
20°	32073	8449	4142	4142	4655
25°	148943	10546	3211	3763	4295
30°	474155	14597	2426	3560	4295
35°	822752	17808	1976	3364	4352
40°	959535	17761	1484	3395	4451
45°	984054	12616	1607	3678	4822
50°	915118	7047	1259	3778	5546
55°	777766	3663	1411	4234	6215
60°	449191	964	1619	4547	6820
65°	91650	0	1915	5379	7661
70°	1410	453	2367	6143	9013
75°	1264	599	2529	6255	10647
80°	893	893	3769	7438	12100
85°	0	1778	7509	7509	14820

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 984054 cd/sqm



TEST NUMBER: P1316588

CATALOG NUMBER: LDSQA3D13R309740DE010 3LSQCA45R 1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.9	0.4
10°-20°	11.3	1.0
20°-30°	64.4	5.8
30°-40°	300.9	26.9
40°-50°	425.5	38.1
50°-60°	261.7	23.4
60°-70°	39.9	3.6
70°-80°	6.3	0.6
80°-90°	3.1	0.3
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°	79.6	7.1
0°-40°	380.5	34.1
0°-60°	1067.7	95.6
0°-90°	1117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	46	45	42	39	38	5
15°	72	43	30	27	28	25
25°	784	56	17	20	23	482
35°	3913	85	9	16	21	2349
45°	4040	52	7	15	20	3063
55°	2590	12	5	14	21	2204
65°	225	0	5	13	19	407
75°	2	1	4	9	16	2
85°	0	1	4	4	8	0
90°	0	0	0	0	0	



TEST NUMBER: P1316588

CATALOG NUMBER: LDSQA3D13R309740DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
2.5°	44.2	44.2	45.2	45.2	44.2	45.2	45.2	45.2	43.3	42.3	40.5
5°	46.1	46.1	46.1	47.0	46.1	46.1	45.2	44.2	42.3	39.5	38.6
7.5°	48.0	48.0	47.0	48.0	47.0	47.0	45.2	43.3	40.5	37.6	35.8
10°	49.9	49.9	48.9	48.9	48.0	48.0	44.2	41.4	36.7	33.9	32.9
12.5°	55.5	55.5	54.6	53.6	51.8	50.8	43.3	38.6	32.9	30.1	29.2
15°	71.5	70.6	68.7	65.9	61.2	60.2	43.3	35.8	30.1	27.3	27.3
17.5°	97.9	96.9	94.1	86.6	78.1	75.3	43.3	32.0	26.3	24.5	24.5
20°	175.0	167.5	153.4	134.6	114.8	104.4	46.1	28.2	22.6	21.6	22.6
21°	228.6	221.1	203.2	172.2	137.4	126.1	48.0	27.3	21.6	20.7	22.6
22°	311.4	303.0	266.3	223.9	174.1	154.3	48.9	25.4	19.8	19.8	21.6
23°	434.7	420.6	358.5	290.7	217.4	189.1	50.8	24.5	18.8	19.8	20.7
24°	569.3	557.0	486.5	384.8	277.6	237.1	52.7	23.5	17.9	17.9	19.8
25°	783.8	769.7	644.5	485.5	351.9	285.1	55.5	21.6	16.9	16.9	19.8
26°	1061.4	996.4	829.9	625.7	433.8	357.5	58.3	20.7	16.0	16.9	18.8
27°	1324.8	1271.2	1083.9	802.6	536.3	439.4	62.1	19.8	15.1	16.0	18.8
28°	1671.1	1595.8	1359.6	1015.2	675.6	531.6	65.9	18.8	14.1	16.0	17.9
29°	2058.7	1953.3	1668.2	1254.2	832.7	635.1	69.6	17.9	13.2	15.1	17.9
30°	2384.3	2285.5	2000.4	1537.5	1013.4	771.5	73.4	16.9	12.2	15.1	17.9
31°	2766.3	2616.7	2271.4	1777.4	1168.6	908.0	77.2	15.1	11.3	14.1	16.9
32°	3075.8	2971.4	2604.4	2048.4	1372.8	1058.5	80.0	14.1	11.3	14.1	16.9
33°	3375.1	3234.9	2880.1	2308.1	1557.2	1212.8	82.8	13.2	10.4	13.2	16.9
34°	3661.1	3532.2	3140.8	2517.9	1731.3	1359.6	84.7	11.3	10.4	13.2	16.0
35°	3913.3	3763.7	3370.4	2723.0	1910.1	1493.2	84.7	10.4	9.4	12.2	16.0
36°	4077.0	3969.7	3569.8	2925.3	2071.9	1620.3	84.7	9.4	8.5	12.2	15.1
37°	4217.2	4092.0	3729.8	3080.6	2191.4	1721.9	84.7	8.5	8.5	12.2	15.1
38°	4274.6	4167.3	3839.9	3217.9	2303.4	1825.4	83.7	7.5	7.5	11.3	15.1
39°	4297.2	4201.2	3922.7	3316.7	2386.2	1895.0	81.9	6.6	7.5	11.3	15.1
40°	4268.0	4195.5	3965.0	3380.7	2452.0	1945.8	79.0	5.6	6.6	11.3	15.1
42.5°	4147.5	4099.6	3955.6	3444.7	2508.5	1983.4	68.7	3.8	6.6	10.4	15.1
45°	4040.3	3987.6	3860.6	3377.9	2435.1	1909.1	51.8	1.9	6.6	10.4	15.1
47.5°	3832.3	3799.4	3699.7	3207.6	2274.2	1741.6	36.7	0.9	5.6	9.4	14.1
50°	3415.5	3384.5	3252.7	2785.1	1956.2	1472.5	26.3	0.9	4.7	9.4	14.1
52.5°	3042.0	3009.0	2819.9	2315.6	1502.6	1079.2	16.9	0.9	4.7	9.4	14.1
55°	2590.3	2532.9	2284.5	1757.6	1065.1	723.6	12.2	0.9	4.7	8.5	14.1
57.5°	1917.6	1833.8	1611.8	1198.7	613.5	392.4	6.6	0.9	4.7	8.5	14.1
60°	1304.1	1254.2	1008.7	632.3	261.6	165.6	2.8	0.9	4.7	8.5	13.2
62.5°	790.4	727.3	507.2	269.1	112.9	75.3	0.0	1.9	4.7	8.5	13.2
65°	224.9	199.5	132.7	61.2	32.0	24.5	0.0	1.9	4.7	8.5	13.2
67.5°	7.5	7.5	7.5	6.6	4.7	4.7	0.9	1.9	4.7	8.5	12.2
70°	2.8	2.8	2.8	1.9	1.9	0.9	0.9	1.9	4.7	7.5	12.2
72.5°	1.9	1.9	1.9	1.9	0.9	0.9	0.9	1.9	3.8	6.6	11.3
75°	1.9	1.9	1.9	0.9	0.9	0.9	0.9	2.8	3.8	6.6	9.4
77.5°	1.9	1.9	1.9	0.9	0.9	0.9	0.9	2.8	3.8	5.6	9.4
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	2.8	3.8	5.6	7.5



TEST NUMBER: P1316588

CATALOG NUMBER: LDSQA3D13R309740DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.9	2.8	3.8	3.8	5.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.8	2.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.8	2.8	2.8	1.9
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: P1316588

CATALOG NUMBER: LDSQA3D13R309740DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
0°	43.3	43.3
2.5°	40.5	40.5
5°	37.6	37.6
7.5°	34.8	34.8
10°	32.0	32.0
12.5°	30.1	30.1
15°	27.3	28.2
17.5°	25.4	26.3
20°	24.5	25.4
21°	24.5	25.4
22°	23.5	24.5
23°	23.5	24.5
24°	22.6	23.5
25°	21.6	22.6
26°	21.6	22.6
27°	21.6	22.6
28°	20.7	22.6
29°	20.7	21.6
30°	20.7	21.6
31°	19.8	21.6
32°	19.8	21.6
33°	19.8	20.7
34°	18.8	20.7
35°	18.8	20.7
36°	18.8	20.7
37°	18.8	19.8
38°	18.8	20.7
39°	18.8	19.8
40°	18.8	19.8
42.5°	18.8	19.8
45°	18.8	19.8
47.5°	18.8	20.7
50°	18.8	20.7
52.5°	18.8	20.7
55°	18.8	20.7
57.5°	18.8	19.8
60°	18.8	19.8
62.5°	17.9	19.8
65°	17.9	18.8
67.5°	17.9	18.8
70°	16.9	17.9
72.5°	16.0	16.9
75°	14.1	16.0
77.5°	13.2	14.1
80°	11.3	12.2



TEST NUMBER: P1316588  
CATALOG NUMBER: LDSQA3D13R309740DE010 3LSQCA45R 1MB

**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
82.5°	9.4	9.4
85°	6.6	7.5
87.5°	3.8	3.8
90°	0.0	0.0

(END OF REPORT)