

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: P1310535

Luminaire Tested: LDSQA3D17R359035DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R359035DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

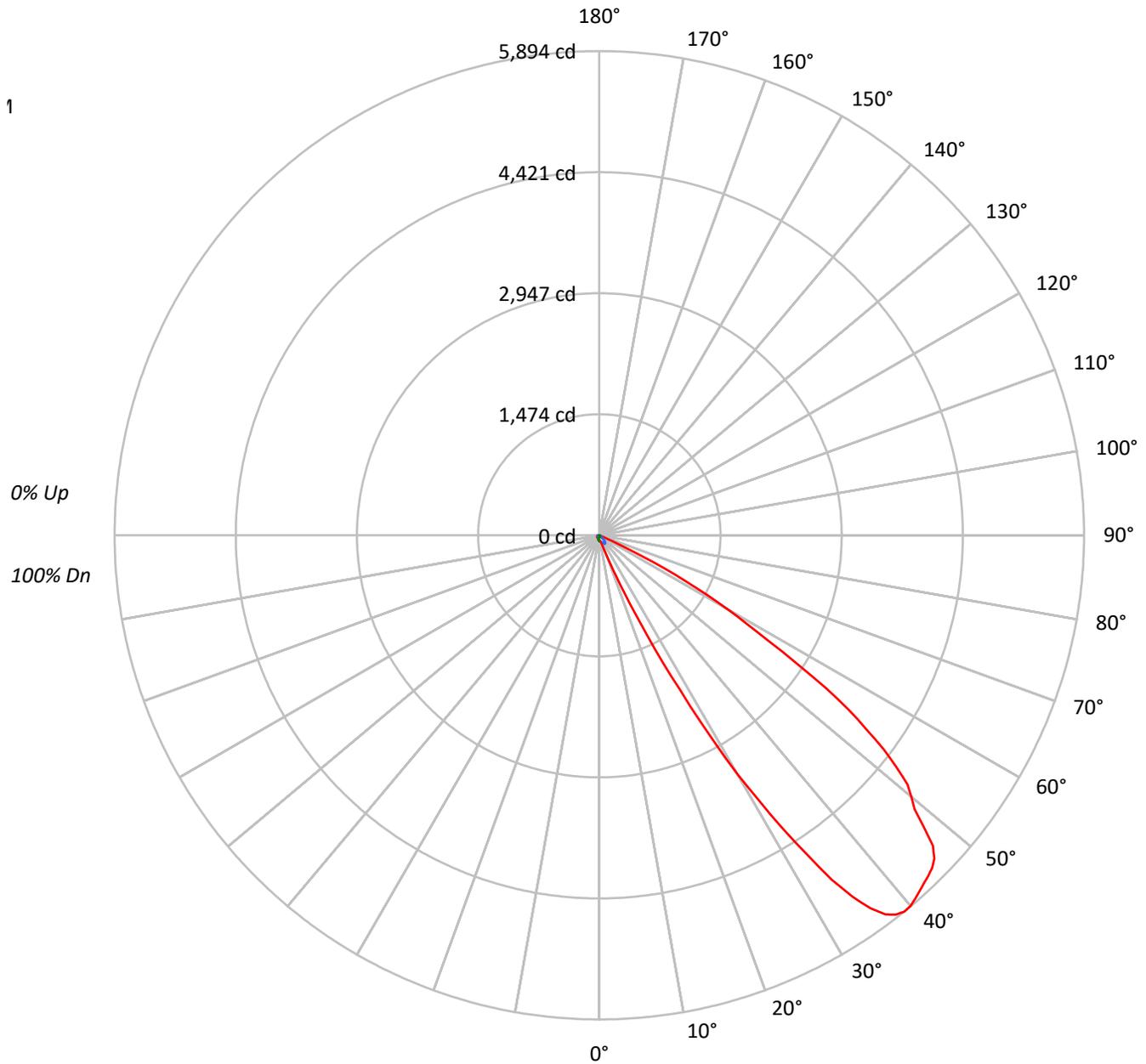
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1468.0 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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	100	97	94	96	93	91	92	90	89	89	89	89	87
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	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	52	52	52	52	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	26	26	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	22	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	19	19	17

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

	0°	45°	90°	135°	180°
0°	11642	11642	11642	11642	11642
5°	12603	12378	11462	10304	10079
10°	13203	12049	10195	8814	8814
15°	18900	11821	8273	7560	7792
20°	47358	12628	6561	6561	7294
25°	219842	16114	5036	6043	6803
30°	668328	21875	3957	5528	6861
35°	1129499	25356	3343	5298	6686
40°	1323992	25023	2675	5373	7149
45°	1394330	17755	2265	5821	7745
50°	1327196	10664	2143	6028	8520
55°	1112137	4384	2402	6756	9939
60°	622619	930	2756	7750	10953
65°	107461	530	2690	8639	12429
70°	2014	655	3323	9366	13999
75°	1797	865	4392	10580	15903
80°	1289	1289	5256	11802	18447
85°	0	2569	10473	13042	20946

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 1404193 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.1	0.4
10°-20°	17.3	1.2
20°-30°	90.1	6.1
30°-40°	389.0	26.5
40°-50°	554.9	37.8
50°-60°	343.7	23.4
60°-70°	52.3	3.6
70°-80°	9.8	0.7
80°-90°	4.9	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°	113.5	7.7
0°-40°	502.5	34.2
0°-60°	1401.0	95.4
0°-90°	1468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	73	72	66	60	58	7
15°	106	66	46	42	44	38
25°	1157	85	26	32	36	692
35°	5372	121	16	25	32	3226
45°	5725	73	9	24	32	4325
55°	3704	15	8	22	33	3155
65°	264	1	7	21	30	539
75°	3	1	7	16	24	3
85°	0	1	5	7	11	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°	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
2.5°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	67.6	66.3
5°	72.9	72.9	71.6	71.6	71.6	71.6	71.6	71.6	68.9	66.3	62.3
7.5°	74.2	74.2	72.9	72.9	72.9	72.9	71.6	70.2	67.6	62.3	58.3
10°	75.5	75.5	75.5	75.5	74.2	72.9	71.6	68.9	64.9	58.3	54.3
12.5°	84.8	84.8	83.5	80.8	78.2	75.5	72.9	67.6	59.6	53.0	49.0
15°	106.0	104.7	102.0	98.1	92.8	86.1	80.8	66.3	54.3	46.4	43.7
17.5°	148.4	145.8	141.8	128.5	116.6	104.7	94.1	66.3	49.0	41.1	38.4
20°	258.4	259.7	231.9	200.1	173.6	144.4	117.9	68.9	43.7	35.8	34.5
22.5°	539.3	518.1	451.9	375.0	286.2	221.3	167.0	75.5	38.4	30.5	30.5
25°	1156.9	1076.0	915.7	691.7	487.7	345.9	242.5	84.8	34.5	26.5	27.8
27.5°	2112.3	2039.5	1717.4	1293.4	858.7	522.1	328.6	96.7	30.5	22.5	25.2
30°	3360.7	3159.2	2739.2	2120.3	1435.2	799.1	441.3	110.0	25.2	19.9	23.9
31°	3750.3	3657.5	3146.0	2452.9	1681.7	948.8	489.0	114.0	23.9	19.9	22.5
32°	4212.8	4048.4	3589.9	2817.3	1932.1	1082.7	546.0	117.9	22.5	17.2	22.5
33°	4626.2	4467.2	3909.3	3138.0	2185.2	1235.1	606.9	119.3	19.9	17.2	21.2
34°	5060.9	4843.5	4290.9	3473.3	2445.0	1399.4	662.6	120.6	18.6	15.9	21.2
35°	5372.3	5155.0	4619.6	3738.3	2668.9	1545.2	726.2	120.6	17.2	15.9	19.9
36°	5613.5	5422.7	4903.2	4011.3	2891.6	1676.4	776.6	120.6	14.6	14.6	19.9
37°	5779.1	5597.6	5094.0	4245.9	3061.2	1793.0	821.6	120.6	13.3	14.6	19.9
38°	5860.0	5708.9	5278.2	4416.8	3225.5	1884.4	857.4	117.9	11.9	13.3	18.6
39°	5894.4	5771.2	5390.8	4561.3	3348.7	1963.9	883.9	115.3	10.6	13.3	18.6
40°	5889.1	5781.8	5454.5	4660.7	3448.1	2018.3	898.5	111.3	9.3	11.9	18.6
41°	5858.6	5765.9	5487.6	4745.5	3507.8	2055.4	902.5	107.3	8.0	11.9	17.2
42°	5824.2	5739.4	5498.2	4790.5	3546.2	2067.3	891.8	102.0	8.0	10.6	17.2
43°	5788.4	5710.2	5498.2	4805.1	3555.5	2059.3	874.6	92.8	6.6	10.6	17.2
44°	5759.3	5685.0	5481.0	4801.1	3535.6	2028.9	842.8	82.2	5.3	10.6	17.2
45°	5724.8	5651.9	5458.4	4776.0	3497.2	1977.2	803.1	72.9	4.0	9.3	17.2
46°	5663.8	5606.9	5418.7	4724.3	3436.2	1905.6	752.7	66.3	2.7	9.3	15.9
47°	5545.9	5496.9	5341.8	4647.4	3355.4	1820.8	701.0	59.6	2.7	9.3	15.9
48°	5308.7	5307.4	5188.1	4504.3	3226.8	1714.8	646.7	53.0	2.7	9.3	15.9
49°	5079.4	5055.6	4907.2	4252.5	3042.6	1587.6	589.7	47.7	1.3	9.3	15.9
50°	4953.5	4901.9	4658.0	3955.7	2806.7	1411.3	528.7	39.8	1.3	8.0	15.9
51°	4822.3	4748.1	4460.6	3688.0	2525.8	1241.7	462.5	31.8	1.3	8.0	14.6
52°	4585.1	4514.9	4192.9	3432.2	2252.8	1068.1	398.9	26.5	1.3	8.0	15.9
53°	4329.4	4228.7	3878.8	3151.3	2013.0	914.4	333.9	22.5	1.3	8.0	14.6
54°	4007.4	3962.3	3560.8	2806.7	1732.0	766.0	274.3	18.6	1.3	8.0	14.6
55°	3703.9	3637.6	3220.2	2454.2	1477.6	628.1	229.3	14.6	1.3	8.0	14.6
56°	3316.9	3217.5	2826.6	2130.9	1219.2	506.2	193.5	11.9	1.3	8.0	14.6
57°	2855.8	2749.8	2441.0	1771.8	956.8	385.6	161.7	9.3	1.3	8.0	14.6
58°	2415.8	2324.4	1993.1	1367.6	720.9	267.7	133.8	6.6	1.3	6.6	14.6
59°	2087.2	1986.5	1657.8	1052.2	500.9	197.5	100.7	5.3	1.3	8.0	14.6
60°	1807.6	1677.7	1334.5	815.0	357.8	141.8	74.2	2.7	2.7	8.0	14.6
62.5°	1041.6	919.7	637.4	331.3	147.1	72.9	35.8	1.3	2.7	8.0	14.6
65°	263.7	234.6	152.4	71.6	41.1	25.2	13.3	1.3	2.7	6.6	13.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	9.3	9.3	9.3	8.0	6.6	5.3	2.7	1.3	2.7	6.6	13.3
70°	4.0	4.0	4.0	2.7	2.7	1.3	1.3	1.3	2.7	6.6	11.9
72.5°	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	4.0	6.6	10.6
75°	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	4.0	6.6	10.6
77.5°	2.7	2.7	1.3	1.3	1.3	1.3	1.3	1.3	4.0	5.3	9.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	4.0	5.3	8.0
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	4.0	5.3	6.6
85°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	4.0	5.3	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	5.3	4.0
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°	67.6	67.6	67.6
2.5°	63.6	63.6	63.6
5°	59.6	59.6	58.3
7.5°	55.7	54.3	54.3
10°	50.4	50.4	50.4
12.5°	46.4	46.4	46.4
15°	42.4	43.7	43.7
17.5°	38.4	41.1	41.1
20°	35.8	38.4	39.8
22.5°	33.1	35.8	37.1
25°	31.8	34.5	35.8
27.5°	29.2	33.1	35.8
30°	27.8	31.8	34.5
31°	27.8	31.8	33.1
32°	26.5	31.8	33.1
33°	26.5	31.8	33.1
34°	26.5	30.5	33.1
35°	25.2	30.5	31.8
36°	25.2	30.5	31.8
37°	25.2	30.5	33.1
38°	25.2	30.5	31.8
39°	23.9	30.5	31.8
40°	23.9	30.5	31.8
41°	23.9	30.5	31.8
42°	23.9	30.5	31.8
43°	23.9	30.5	31.8
44°	23.9	29.2	31.8
45°	23.9	29.2	31.8
46°	23.9	30.5	31.8
47°	23.9	30.5	33.1
48°	23.9	29.2	31.8
49°	22.5	29.2	31.8
50°	22.5	29.2	31.8
51°	22.5	30.5	33.1
52°	22.5	30.5	33.1
53°	22.5	30.5	33.1
54°	22.5	30.5	31.8
55°	22.5	30.5	33.1
56°	22.5	30.5	31.8
57°	22.5	30.5	31.8
58°	22.5	29.2	31.8
59°	22.5	29.2	31.8
60°	22.5	29.2	31.8
62.5°	21.2	29.2	31.8
65°	21.2	27.8	30.5



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	19.9	27.8	29.2
70°	18.6	26.5	27.8
72.5°	17.2	25.2	26.5
75°	15.9	22.5	23.9
77.5°	13.3	19.9	22.5
80°	11.9	17.2	18.6
82.5°	9.3	14.6	15.9
85°	6.6	10.6	10.6
87.5°	2.7	5.3	5.3
90°	0.0	0.0	0.0

(END OF REPORT)