

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: P1319717

Luminaire Tested: LDSQA3D02R509840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319717  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R509840DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

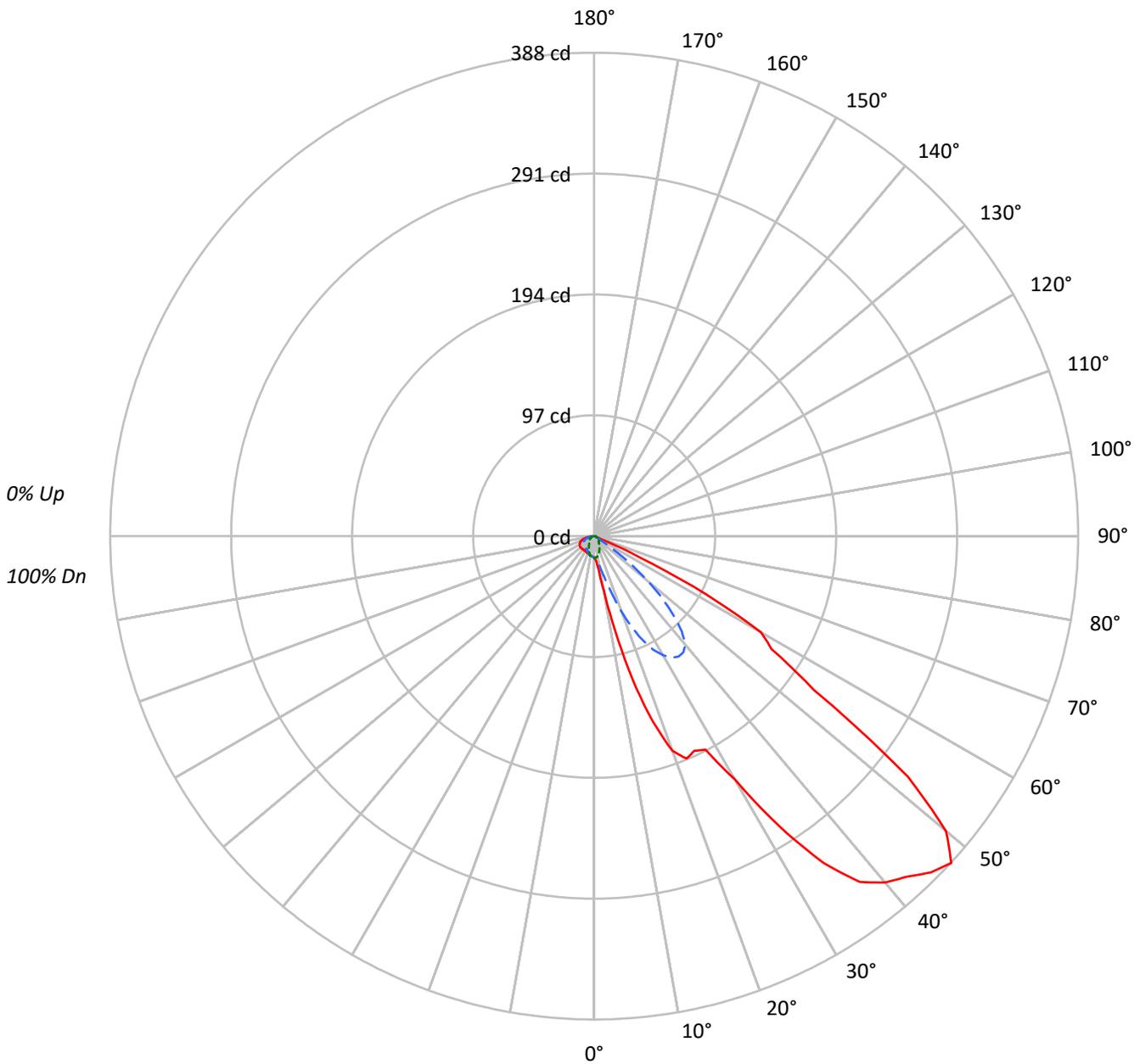
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 219.0 lumens  
Efficiency: N/A  
Efficacy: 60.8 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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				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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	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	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20

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

	0°	45°	90°	135°	180°
0°	2997	2997	2997	2997	2997
5°	3561	3337	2974	2853	2818
10°	7677	4127	2851	2746	2781
15°	21253	6775	2567	2639	2728
20°	33594	11895	2218	2529	2676
25°	36124	17463	1900	2451	2698
30°	44844	21935	1651	2406	2784
35°	67299	24809	1430	2418	2943
40°	81610	25517	1281	2518	3103
45°	92967	21896	1242	2679	3410
50°	98679	15111	1259	2894	3805
55°	64466	6065	1261	3123	4204
60°	53182	1033	1240	3376	4616
65°	16015	530	1141	3627	5094
70°	655	554	1158	3726	5539
75°	599	599	1131	3793	6055
80°	595	595	1091	3769	6149
85°	395	790	1581	3754	5928

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 98986 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.8	0.8
10°-20°	10.4	4.7
20°-30°	26.7	12.2
30°-40°	47.9	21.9
40°-50°	64.0	29.2
50°-60°	48.7	22.2
60°-70°	14.8	6.7
70°-80°	3.5	1.6
80°-90°	1.3	0.6
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°	38.8	17.7
0°-40°	86.7	39.6
0°-60°	199.4	91.1
0°-90°	219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	21	19	17	16	16	3
15°	119	38	14	15	15	35
25°	190	92	10	13	14	91
35°	320	118	7	12	14	197
45°	382	90	5	11	14	292
55°	215	20	4	10	14	214
65°	39	1	3	9	12	54
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
2.5°	18.5	18.5	18.5	18.5	18.5	18.5	18.3	18.3	18.3	18.0	17.6
5°	20.6	20.8	20.6	20.6	20.2	20.2	19.9	19.9	19.3	18.2	17.2
7.5°	27.0	26.9	26.7	25.9	25.3	24.0	23.5	22.5	20.8	18.2	16.8
10°	43.9	42.7	42.0	40.3	36.7	34.4	31.4	28.4	23.6	18.2	16.3
12.5°	76.2	76.0	73.8	68.1	63.0	56.0	48.6	41.2	29.1	17.8	15.5
15°	119.2	117.5	114.3	107.6	98.6	87.6	74.3	61.3	38.0	17.2	14.4
17.5°	155.9	153.8	151.3	144.7	134.3	120.5	104.6	86.6	50.1	16.5	13.2
20°	183.3	182.0	179.9	174.6	164.8	152.3	134.5	112.7	64.9	15.5	12.1
22.5°	193.3	193.1	193.5	191.6	186.7	176.9	159.8	137.1	79.4	14.4	11.0
25°	190.1	189.9	192.4	194.8	196.0	192.0	178.9	156.8	91.9	13.4	10.0
27.5°	193.1	192.6	191.4	191.8	195.0	197.3	191.2	171.9	102.7	12.1	9.1
30°	225.5	222.3	217.2	208.5	202.0	201.5	198.8	183.9	110.3	10.8	8.3
32.5°	276.0	272.0	262.7	246.7	231.3	219.6	211.3	193.9	115.6	9.5	7.4
35°	320.1	317.2	306.4	290.5	268.6	246.7	231.5	208.6	118.0	8.3	6.8
37.5°	349.9	348.8	338.2	321.2	298.9	273.0	252.9	223.8	117.5	7.0	6.2
40°	363.0	359.6	350.7	336.3	313.8	290.5	269.4	233.4	113.5	5.7	5.7
42.5°	370.8	367.0	357.3	343.7	321.6	296.8	271.3	229.3	104.0	4.5	5.5
45°	381.7	377.8	365.1	350.5	328.2	299.4	263.9	214.5	89.9	3.4	5.1
47.5°	388.3	385.7	376.2	361.7	334.6	295.7	246.9	200.7	74.2	2.6	4.9
50°	368.3	365.6	358.6	348.6	330.5	283.0	231.9	178.4	56.4	2.1	4.7
52.5°	317.0	319.3	320.6	323.5	310.2	254.6	209.6	160.6	38.0	1.7	4.4
55°	214.7	218.1	221.9	233.2	248.7	226.6	186.1	138.8	20.2	1.7	4.2
57.5°	168.7	167.6	166.5	165.7	177.8	186.9	163.6	111.0	8.7	1.7	3.8
60°	154.4	150.9	148.7	149.2	155.3	151.7	129.6	72.4	3.0	1.7	3.6
62.5°	101.2	103.8	109.0	117.7	113.5	97.4	75.3	28.8	1.5	1.7	3.2
65°	39.3	38.0	39.3	41.8	36.1	26.9	16.8	5.1	1.3	1.5	2.8
67.5°	5.3	4.7	3.6	2.3	2.1	1.9	1.5	1.3	1.3	1.5	2.6
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.3	2.3
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.7
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.1
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	0.9
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6
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):**

	112.5°	135°	157.5°	180°
0°	17.4	17.4	17.4	17.4
2.5°	17.2	16.8	16.8	16.8
5°	16.8	16.5	16.5	16.3
7.5°	16.3	16.1	16.1	16.1
10°	15.9	15.7	15.9	15.9
12.5°	15.1	15.3	15.5	15.5
15°	14.4	14.8	15.1	15.3
17.5°	13.6	14.4	14.8	14.9
20°	12.9	13.8	14.4	14.6
22.5°	12.3	13.2	14.0	14.4
25°	11.5	12.9	13.8	14.2
27.5°	10.8	12.3	13.4	14.0
30°	10.2	12.1	13.4	14.0
32.5°	9.6	11.7	13.2	13.8
35°	9.3	11.5	13.2	14.0
37.5°	8.9	11.3	13.2	13.8
40°	8.7	11.2	13.2	13.8
42.5°	8.5	11.2	13.2	14.0
45°	8.1	11.0	13.2	14.0
47.5°	7.9	11.0	13.2	14.0
50°	7.8	10.8	13.2	14.2
52.5°	7.6	10.6	13.2	14.2
55°	7.2	10.4	13.1	14.0
57.5°	7.0	10.2	12.9	13.6
60°	6.6	9.8	12.5	13.4
62.5°	6.2	9.5	12.1	12.9
65°	5.7	8.9	11.5	12.5
67.5°	5.1	8.1	11.0	11.9
70°	4.5	7.4	10.2	11.0
72.5°	4.0	6.6	9.5	10.0
75°	3.4	5.7	8.3	9.1
77.5°	2.8	4.9	7.0	7.6
80°	2.1	3.8	5.7	6.2
82.5°	1.7	2.8	4.2	4.5
85°	1.1	1.9	2.6	3.0
87.5°	0.6	0.9	1.3	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)