

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: P1319737

Luminaire Tested: LDSQA3D02R609840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319737  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R609840DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

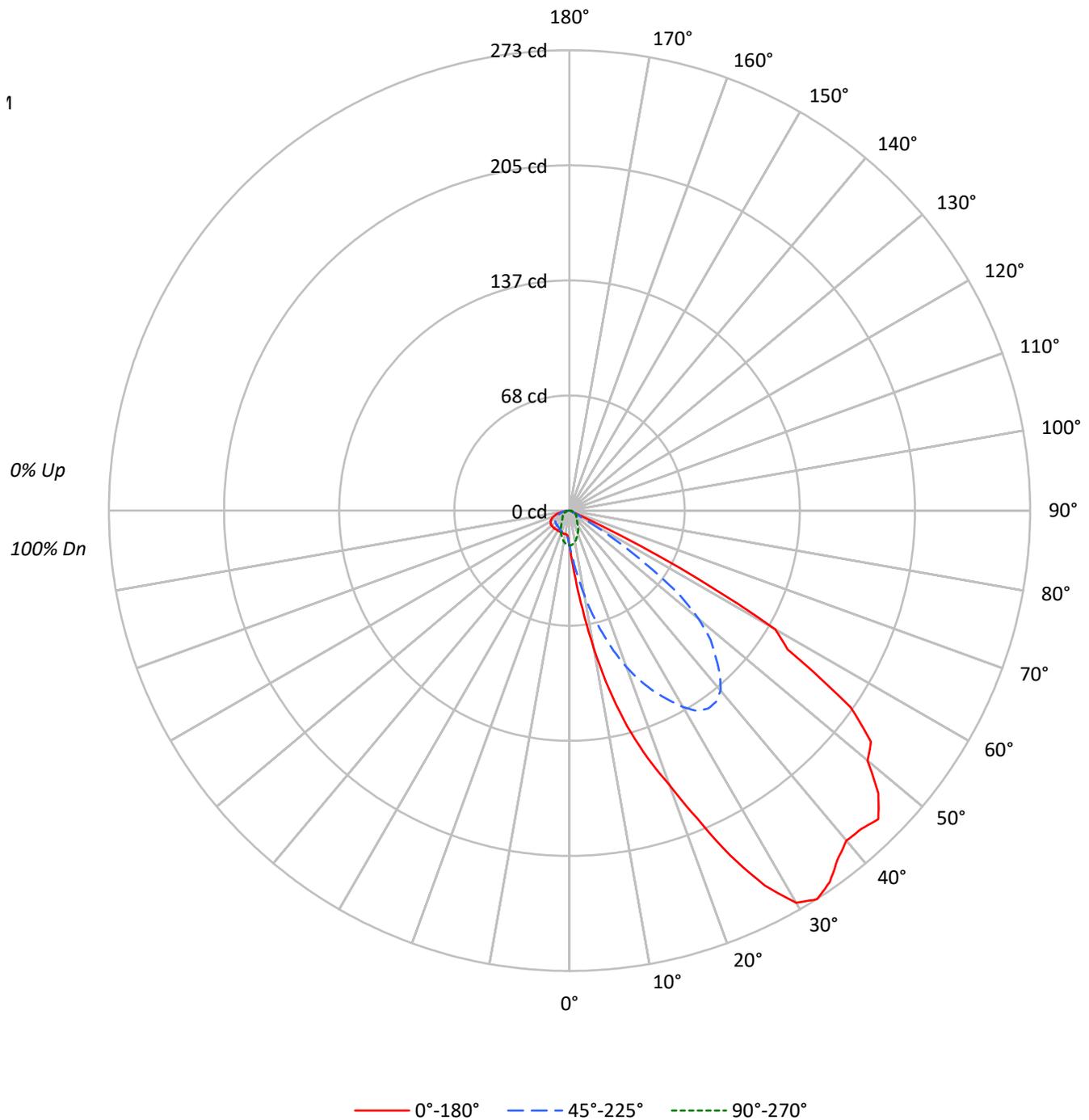
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 208.0 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 0.84 / 2.07  
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





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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	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

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

	0°	45°	90°	135°	180°
0°	3548	3548	3548	3548	3548
5°	7002	5463	3492	2645	2524
10°	14445	8901	3270	2413	2448
15°	23624	13355	2924	2425	2496
20°	31707	18089	2639	2419	2529
25°	42908	22461	2299	2413	2622
30°	53395	26728	1909	2406	2744
35°	56535	30128	1640	2460	2859
40°	57419	31318	1484	2540	3103
45°	63033	29836	1437	2728	3361
50°	61812	26740	1420	2894	3697
55°	61073	16394	1411	3123	4084
60°	48463	3892	1481	3307	4443
65°	3097	693	1467	3382	4768
70°	655	755	1410	3525	5035
75°	599	732	1264	3394	5190
80°	595	793	1289	3372	4860
85°	395	790	1581	2964	4940

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 66540 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.6	1.2
10°-20°	13.0	6.2
20°-30°	30.1	14.5
30°-40°	46.7	22.5
40°-50°	53.3	25.6
50°-60°	44.9	21.6
60°-70°	13.0	6.3
70°-80°	3.3	1.6
80°-90°	1.1	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°	45.6	21.9
0°-40°	92.4	44.4
0°-60°	190.5	91.6
0°-90°	208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	208.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	40	32	20	15	15	5
15°	132	75	16	14	14	38
25°	226	118	12	13	14	105
35°	269	143	8	12	14	167
45°	259	122	6	11	14	195
55°	203	55	5	10	14	171
65°	8	2	4	8	12	37
75°	1	1	2	5	8	1
85°	0	0	1	2	2	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°	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6
2.5°	27.8	27.6	27.6	27.4	27.2	27.0	26.5	26.3	25.1	22.9	20.6
5°	40.5	40.3	39.7	39.5	38.6	37.2	35.9	34.6	31.6	25.1	20.2
7.5°	58.6	59.0	58.6	56.5	55.2	53.1	49.2	46.3	40.3	27.4	19.5
10°	82.6	82.6	82.1	78.8	76.0	72.0	66.9	62.0	50.9	29.5	18.7
12.5°	108.7	109.3	106.4	103.8	98.7	93.8	86.8	79.4	63.0	31.2	17.8
15°	132.5	132.2	129.3	125.9	120.6	113.8	106.4	97.0	74.9	32.3	16.4
17.5°	153.7	153.0	150.5	146.7	140.3	132.7	123.3	113.1	87.2	33.3	15.5
20°	173.0	170.4	167.5	163.5	157.3	149.4	139.5	128.0	98.7	33.3	14.4
22.5°	197.4	194.7	190.8	184.7	176.4	166.6	155.0	142.0	108.9	32.5	13.2
25°	225.8	223.7	216.9	209.1	198.3	186.6	173.2	155.6	118.2	31.4	12.1
27.5°	250.5	248.3	241.4	230.1	217.1	203.1	188.9	170.9	126.3	29.3	10.8
30°	268.5	265.7	260.4	249.6	233.7	216.7	199.9	182.6	134.4	26.8	9.6
32.5°	273.2	272.8	268.9	260.9	246.7	228.0	208.0	189.3	140.9	23.6	8.7
35°	268.9	269.4	268.7	264.7	254.3	236.0	213.3	192.9	143.3	20.4	7.8
37.5°	260.9	261.7	263.0	263.6	257.0	240.7	216.3	194.4	142.8	17.2	7.2
40°	255.4	255.1	255.1	258.8	257.5	242.8	216.7	193.2	139.3	13.8	6.6
42.5°	256.0	251.8	249.0	255.1	257.0	241.8	214.2	190.2	132.0	10.6	6.1
45°	258.8	250.0	245.0	252.8	255.8	238.6	209.7	185.7	122.5	7.4	5.9
47.5°	248.3	242.4	241.6	252.6	253.7	233.1	202.7	178.5	113.4	5.1	5.5
50°	230.7	229.7	233.7	245.0	245.2	224.1	194.7	165.4	99.8	3.6	5.3
52.5°	225.2	225.8	229.3	235.2	229.7	208.7	180.4	154.5	82.6	2.8	5.1
55°	203.4	204.4	207.8	211.4	207.4	190.0	163.0	141.2	54.6	2.6	4.7
57.5°	153.2	155.6	161.8	165.1	165.4	154.9	147.7	121.8	30.8	2.6	4.5
60°	140.7	137.5	134.6	128.0	122.0	120.6	121.4	91.3	11.3	2.5	4.3
62.5°	73.6	72.0	76.4	79.2	80.0	84.1	78.7	48.2	2.5	2.5	4.0
65°	7.6	7.6	9.3	12.3	20.4	27.2	25.9	14.0	1.7	2.3	3.6
67.5°	2.3	2.3	2.3	2.6	3.4	3.4	2.8	2.1	1.7	2.1	3.2
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.3	1.5	1.9	2.8
72.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.7	2.5
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.3	1.9
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.1	1.5
80°	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.9	1.3
82.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.8	0.9
85°	0.2	0.4	0.4	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	0.4	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°	20.6	20.6	20.6	20.6
2.5°	18.7	17.4	16.6	16.3
5°	17.0	15.3	14.7	14.6
7.5°	15.5	14.4	14.2	14.2
10°	14.6	13.8	14.0	14.0
12.5°	14.0	13.8	14.0	14.2
15°	13.4	13.6	14.0	14.0
17.5°	13.0	13.4	13.8	14.0
20°	12.5	13.2	13.8	13.8
22.5°	12.1	13.0	13.6	13.8
25°	11.7	12.7	13.4	13.8
27.5°	11.2	12.5	13.4	13.6
30°	10.6	12.1	13.2	13.8
32.5°	10.0	11.9	13.2	13.6
35°	9.6	11.7	13.2	13.6
37.5°	9.3	11.5	13.2	13.8
40°	9.1	11.3	13.0	13.8
42.5°	8.7	11.3	13.0	13.8
45°	8.5	11.2	13.0	13.8
47.5°	8.3	11.0	13.0	13.8
50°	7.9	10.8	12.9	13.8
52.5°	7.8	10.6	12.9	13.8
55°	7.4	10.4	12.7	13.6
57.5°	7.2	10.0	12.5	13.2
60°	6.8	9.6	12.1	12.9
62.5°	6.2	9.1	11.5	12.5
65°	5.7	8.3	11.0	11.7
67.5°	5.1	7.8	10.2	11.0
70°	4.5	7.0	9.3	10.0
72.5°	4.0	6.1	8.3	8.9
75°	3.4	5.1	7.0	7.8
77.5°	2.6	4.2	5.9	6.4
80°	2.1	3.4	4.5	4.9
82.5°	1.7	2.5	3.4	3.6
85°	1.1	1.5	2.1	2.5
87.5°	0.6	0.8	0.9	1.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)