

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: P1323686

Luminaire Tested: LDSQA3D05R659030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

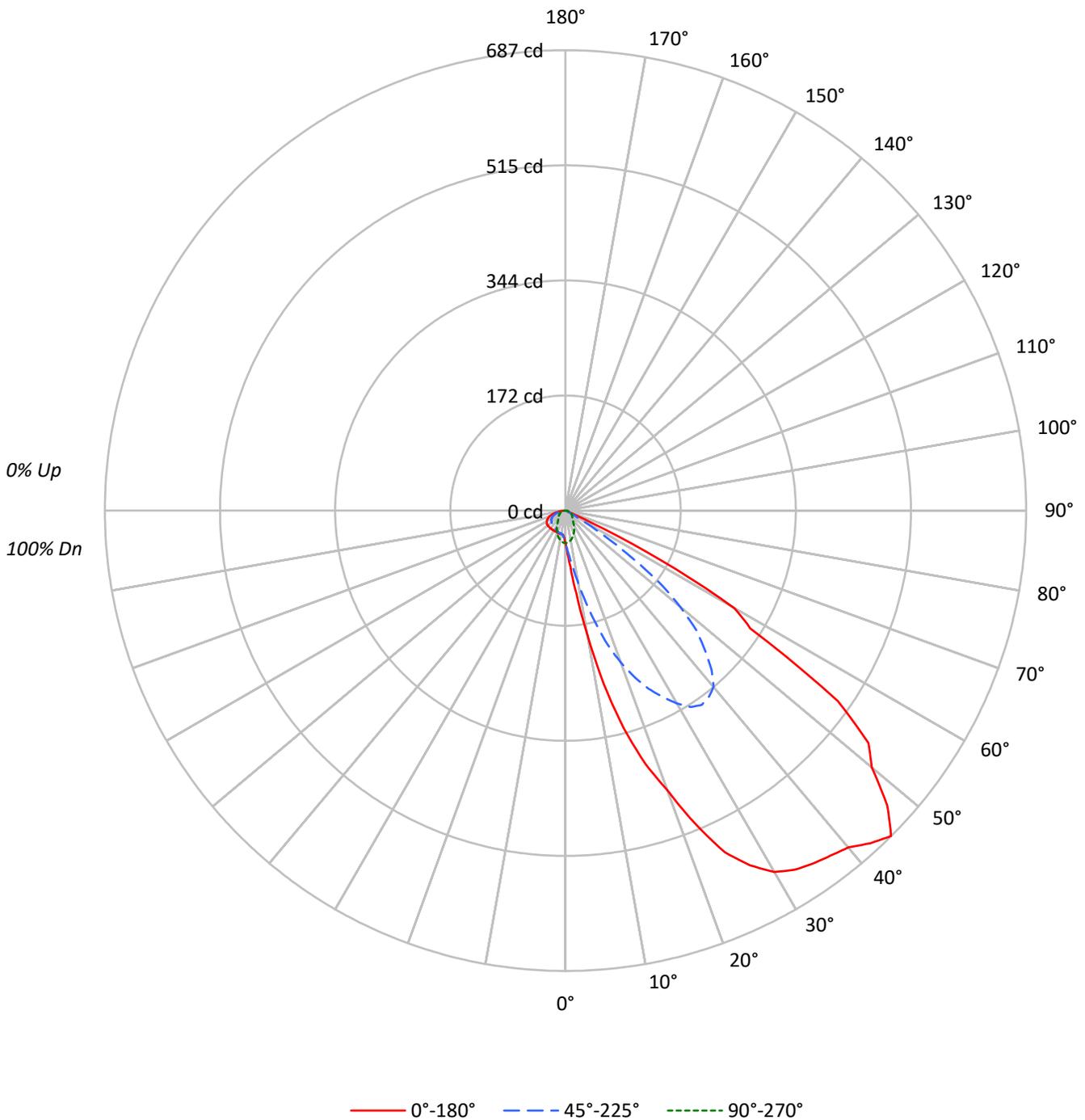
Test Method: LM-79-2019  
Report Number: P1323686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R659030D2WDE010 3LSQCA45R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R65 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 498.1 lumens  
Efficiency: N/A  
Efficacy: 44.9 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 11.1  
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

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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62	62	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	53	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23

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

	0°	45°	90°	135°	180°
0°	8336	8336	8336	8336	8336
5°	14591	11911	8195	6639	6397
10°	33000	19219	7852	6121	6208
15°	59997	30899	7292	6151	6330
20°	81356	44114	6598	6140	6415
25°	106928	55697	5796	5986	6556
30°	123834	66043	4972	5966	6861
35°	135209	74427	4205	6097	7253
40°	147505	77226	3710	6407	7756
45°	167228	71631	3532	6820	8403
50°	159740	59802	3483	7234	9244
55°	148869	33569	3603	7807	10209
60°	100268	7233	3617	8267	11022
65°	15445	1834	3464	8558	12022
70°	1762	1762	3273	8812	12840
75°	1664	1664	2994	8650	12976
80°	1488	1984	2975	7934	12893
85°	988	1976	2964	7904	11856

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 167228 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	1.2
10°-20°	31.7	6.4
20°-30°	74.4	14.9
30°-40°	112.4	22.6
40°-50°	129.2	25.9
50°-60°	102.6	20.6
60°-70°	30.7	6.2
70°-80°	8.4	1.7
80°-90°	2.8	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°	111.9	22.5
0°-40°	224.4	45.0
0°-60°	456.2	91.6
0°-90°	498.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	498.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	84	69	47	38	37	11
15°	336	173	41	34	36	97
25°	563	293	30	32	34	257
35°	643	354	20	29	34	404
45°	687	294	14	28	34	510
55°	496	112	12	26	34	409
65°	38	4	8	21	30	85
75°	2	2	4	13	20	3
85°	0	1	2	4	6	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
2.5°	61.4	61.9	61.4	61.4	60.9	60.4	56.9	52.9	48.4	44.9	42.4
5°	84.4	84.9	83.4	83.4	82.4	80.9	68.9	57.4	47.4	41.9	38.4
7.5°	124.8	126.8	124.3	121.3	115.8	114.8	85.9	61.9	46.4	38.9	36.0
10°	188.7	187.2	184.8	178.8	169.3	164.8	109.9	66.4	44.9	37.0	35.0
12.5°	266.1	262.1	259.2	248.2	235.2	227.7	139.8	70.4	42.9	35.0	34.5
15°	336.5	333.6	326.6	316.1	300.1	294.1	173.3	72.9	40.9	33.5	34.5
17.5°	396.0	393.0	389.0	378.5	362.0	353.0	210.7	74.4	38.4	32.5	34.0
20°	443.9	441.9	436.4	427.9	411.4	403.0	240.7	74.4	36.0	31.5	33.5
22.5°	505.8	501.3	494.3	481.9	461.4	448.4	269.1	72.9	33.5	30.5	32.5
25°	562.7	559.7	550.8	535.8	513.8	500.8	293.1	69.9	30.5	29.0	31.5
27.5°	596.7	594.7	586.2	570.7	546.3	536.3	313.1	65.4	27.5	27.5	31.0
30°	622.7	618.7	610.2	595.2	570.2	558.2	332.1	59.9	25.0	26.0	30.0
32.5°	635.6	634.1	626.7	613.7	589.2	575.7	347.5	52.9	22.0	25.0	29.5
35°	643.1	641.6	635.6	623.2	600.2	587.2	354.0	46.4	20.0	24.0	29.0
37.5°	649.1	647.6	640.1	627.7	604.7	591.2	351.0	39.4	18.0	23.0	28.5
40°	656.1	650.6	639.1	626.7	605.7	592.7	343.5	33.0	16.5	22.5	28.5
42.5°	673.1	654.1	636.1	624.7	604.7	589.7	322.1	26.0	15.0	21.5	28.0
45°	686.6	653.1	630.2	621.2	600.7	583.7	294.1	19.0	14.5	21.0	28.0
47.5°	651.1	630.7	620.2	615.2	593.2	574.7	265.1	13.0	14.0	20.5	27.5
50°	596.2	593.7	589.7	590.2	570.2	555.3	223.2	9.0	13.0	20.0	27.0
52.5°	569.7	566.7	559.7	554.8	534.8	521.8	176.8	7.0	12.5	19.5	26.5
55°	495.8	497.8	490.3	493.3	487.3	480.9	111.8	6.5	12.0	18.5	26.0
57.5°	326.6	336.5	354.0	375.0	394.0	407.0	60.4	6.5	11.0	18.0	25.0
60°	291.1	288.6	288.1	292.1	300.6	307.6	21.0	6.0	10.5	16.5	24.0
62.5°	159.3	158.3	173.3	198.7	213.7	215.2	6.0	6.0	9.5	15.5	22.5
65°	37.9	39.4	43.9	54.9	64.9	71.4	4.5	5.5	8.5	14.5	21.0
67.5°	6.0	6.5	6.5	8.0	9.0	9.0	4.0	5.0	7.5	13.0	19.5
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.5	6.5	11.5	17.5
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.5	4.0	5.5	10.0	15.0
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.5	4.5	8.0	13.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.0	4.0	6.5	10.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.5	3.0	5.0	8.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.5	4.0	6.0
85°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.5	4.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	2.0
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):**

	157.5°	180°
0°	48.4	48.4
2.5°	40.9	40.4
5°	37.0	37.0
7.5°	35.5	35.5
10°	35.0	35.5
12.5°	35.0	35.5
15°	35.0	35.5
17.5°	35.0	35.5
20°	34.5	35.0
22.5°	34.0	34.5
25°	33.5	34.5
27.5°	33.0	34.5
30°	33.0	34.5
32.5°	33.0	34.5
35°	32.5	34.5
37.5°	32.5	34.5
40°	32.5	34.5
42.5°	32.5	34.5
45°	32.5	34.5
47.5°	32.5	34.5
50°	32.5	34.5
52.5°	32.0	34.5
55°	32.0	34.0
57.5°	31.0	33.0
60°	30.0	32.0
62.5°	29.0	31.0
65°	27.5	29.5
67.5°	26.0	27.5
70°	23.5	25.5
72.5°	21.0	22.5
75°	18.0	19.5
77.5°	15.0	16.5
80°	12.0	13.0
82.5°	8.5	9.5
85°	5.5	6.0
87.5°	2.5	2.5
90°	0.0	0.0

(END OF REPORT)