

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: P1317237

Luminaire Tested: LDSQA3D05R509827DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

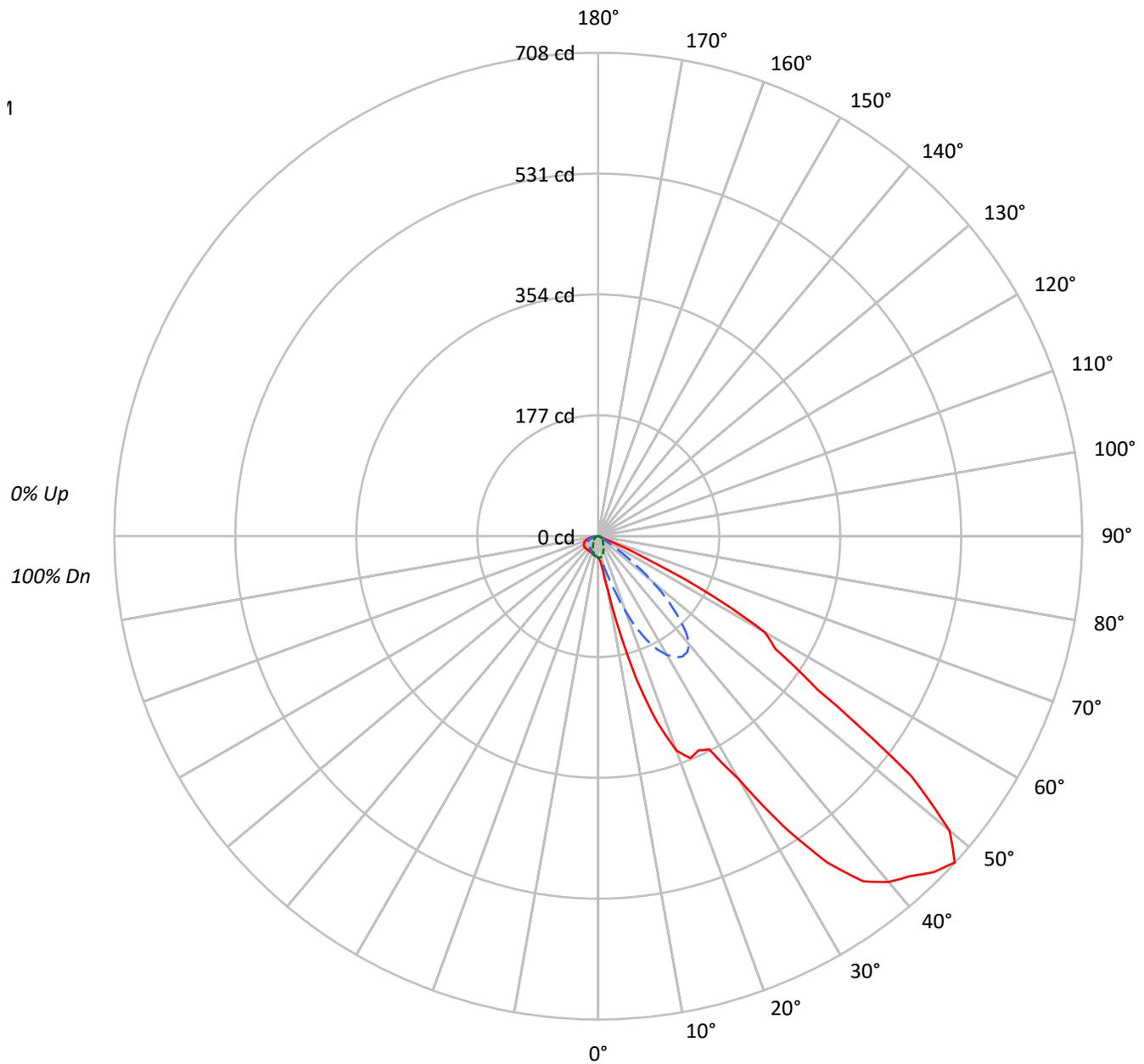
Test Method: LM-79-2019  
Report Number: P1317237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509827DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 399.0 lumens  
Efficiency: N/A  
Efficacy: 55.4 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): 7.2  
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	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°	5459	5459	5459	5459	5459
5°	6500	6085	5428	5186	5117
10°	13990	7537	5176	5002	5054
15°	38708	12356	4671	4796	4975
20°	61196	21663	4050	4619	4857
25°	65825	31829	3477	4447	4903
30°	81694	39952	3023	4395	5071
35°	122594	45224	2607	4415	5361
40°	148674	46493	2316	4564	5665
45°	169396	39871	2265	4871	6211
50°	179782	27516	2304	5251	6913
55°	117462	11080	2282	5705	7657
60°	96858	1894	2239	6166	8439
65°	29219	978	2119	6602	9251
70°	1209	1057	2065	6748	10071
75°	1131	1131	2063	6854	10979
80°	992	992	2083	6843	11306
85°	593	1383	2766	6719	10868

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 180357 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.3	0.8
10°-20°	18.9	4.7
20°-30°	48.6	12.2
30°-40°	87.2	21.9
40°-50°	116.5	29.2
50°-60°	88.8	22.2
60°-70°	26.9	6.8
70°-80°	6.4	1.6
80°-90°	2.3	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°	70.8	17.7
0°-40°	158.0	39.6
0°-60°	363.3	91.1
0°-90°	399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	399.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	32	32	32	32	32	
5°	38	35	31	30	30	5
15°	217	69	26	27	28	64
25°	346	168	18	23	26	165
35°	583	215	12	21	26	358
45°	696	164	9	20	26	532
55°	391	37	8	19	26	389
65°	72	2	5	16	23	99
75°	2	2	3	10	16	2
85°	0	1	1	3	6	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°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
2.5°	33.8	33.8	33.8	33.8	33.8	33.8	33.4	33.4	33.4	32.7	32.1
5°	37.6	37.9	37.6	37.6	36.9	36.9	36.2	36.2	35.2	33.1	31.4
7.5°	49.3	48.9	48.6	47.2	46.2	43.8	42.7	41.0	37.9	33.1	30.7
10°	80.0	77.9	76.5	73.4	66.9	62.7	57.2	51.7	43.1	33.1	29.6
12.5°	138.9	138.5	134.4	124.1	114.8	102.0	88.6	75.1	53.1	32.4	28.3
15°	217.1	214.0	208.2	196.1	179.6	159.6	135.4	111.7	69.3	31.4	26.2
17.5°	284.0	280.2	275.7	263.6	244.7	219.5	190.6	157.8	91.3	30.0	24.1
20°	333.9	331.5	327.7	318.1	300.2	277.4	245.0	205.4	118.2	28.3	22.1
22.5°	352.2	351.9	352.6	349.1	340.2	322.2	291.2	249.9	144.7	26.2	20.0
25°	346.4	346.0	350.5	355.0	357.0	349.8	326.0	285.7	167.5	24.5	18.3
27.5°	351.9	350.8	348.8	349.5	355.3	359.5	348.4	313.3	187.1	22.1	16.5
30°	410.8	404.9	395.6	379.8	368.1	367.0	362.2	335.0	200.9	19.6	15.2
32.5°	502.8	495.6	478.7	449.4	421.5	400.1	385.0	353.2	210.6	17.2	13.4
35°	583.1	577.9	558.3	529.4	489.4	449.4	421.8	380.1	215.1	15.2	12.4
37.5°	637.6	635.5	616.2	585.2	544.5	497.3	460.8	407.7	214.0	12.8	11.4
40°	661.3	655.1	638.9	612.8	571.7	529.4	490.8	425.3	206.8	10.3	10.3
42.5°	675.5	668.6	651.0	626.2	585.9	540.7	494.2	417.7	189.5	8.3	10.0
45°	695.5	688.2	665.1	638.6	597.9	545.6	480.8	390.8	163.7	6.2	9.3
47.5°	707.5	702.7	685.5	658.9	609.7	538.7	449.7	365.7	135.1	4.8	9.0
50°	671.0	666.2	653.4	635.2	602.1	515.6	422.5	325.0	102.7	3.8	8.6
52.5°	577.6	581.7	584.2	589.3	565.2	463.9	381.9	292.6	69.3	3.1	7.9
55°	391.2	397.4	404.3	424.9	453.2	412.9	339.1	253.0	36.9	3.1	7.6
57.5°	307.4	305.3	303.3	301.9	324.0	340.5	298.1	202.3	15.9	3.1	6.9
60°	281.2	275.0	270.9	271.9	282.9	276.4	236.1	132.0	5.5	3.1	6.5
62.5°	184.4	189.2	198.5	214.4	206.8	177.5	137.2	52.4	2.8	3.1	5.9
65°	71.7	69.3	71.7	76.2	65.8	48.9	30.7	9.3	2.4	2.8	5.2
67.5°	9.6	8.6	6.5	4.1	3.8	3.4	2.8	2.4	2.4	2.8	4.8
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.1	2.1	2.4	4.1
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.4	3.4
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.1	3.1
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	2.4
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4	2.1
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.4	1.7
85°	0.3	0.7	0.3	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.4
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0	1.0
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):**

	112.5°	135°	157.5°	180°
0°	31.7	31.7	31.7	31.7
2.5°	31.4	30.7	30.7	30.7
5°	30.7	30.0	30.0	29.6
7.5°	29.6	29.3	29.3	29.3
10°	28.9	28.6	28.9	28.9
12.5°	27.6	27.9	28.3	28.3
15°	26.2	26.9	27.6	27.9
17.5°	24.8	26.2	26.9	27.2
20°	23.4	25.2	26.2	26.5
22.5°	22.4	24.1	25.5	26.2
25°	21.0	23.4	25.2	25.8
27.5°	19.6	22.4	24.5	25.5
30°	18.6	22.1	24.5	25.5
32.5°	17.6	21.4	24.1	25.2
35°	16.9	21.0	24.1	25.5
37.5°	16.2	20.7	24.1	25.2
40°	15.9	20.3	24.1	25.2
42.5°	15.5	20.3	24.1	25.5
45°	14.8	20.0	24.1	25.5
47.5°	14.5	20.0	24.1	25.5
50°	14.1	19.6	24.1	25.8
52.5°	13.8	19.3	24.1	25.8
55°	13.1	19.0	23.8	25.5
57.5°	12.8	18.6	23.4	24.8
60°	12.1	17.9	22.7	24.5
62.5°	11.4	17.2	22.1	23.4
65°	10.3	16.2	21.0	22.7
67.5°	9.3	14.8	20.0	21.7
70°	8.3	13.4	18.6	20.0
72.5°	7.2	12.1	17.2	18.3
75°	6.2	10.3	15.2	16.5
77.5°	5.2	9.0	12.8	13.8
80°	3.8	6.9	10.3	11.4
82.5°	3.1	5.2	7.6	8.3
85°	2.1	3.4	4.8	5.5
87.5°	1.0	1.7	2.4	2.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)