

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: P1314371

Luminaire Tested: LDSQA3D05R509730DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

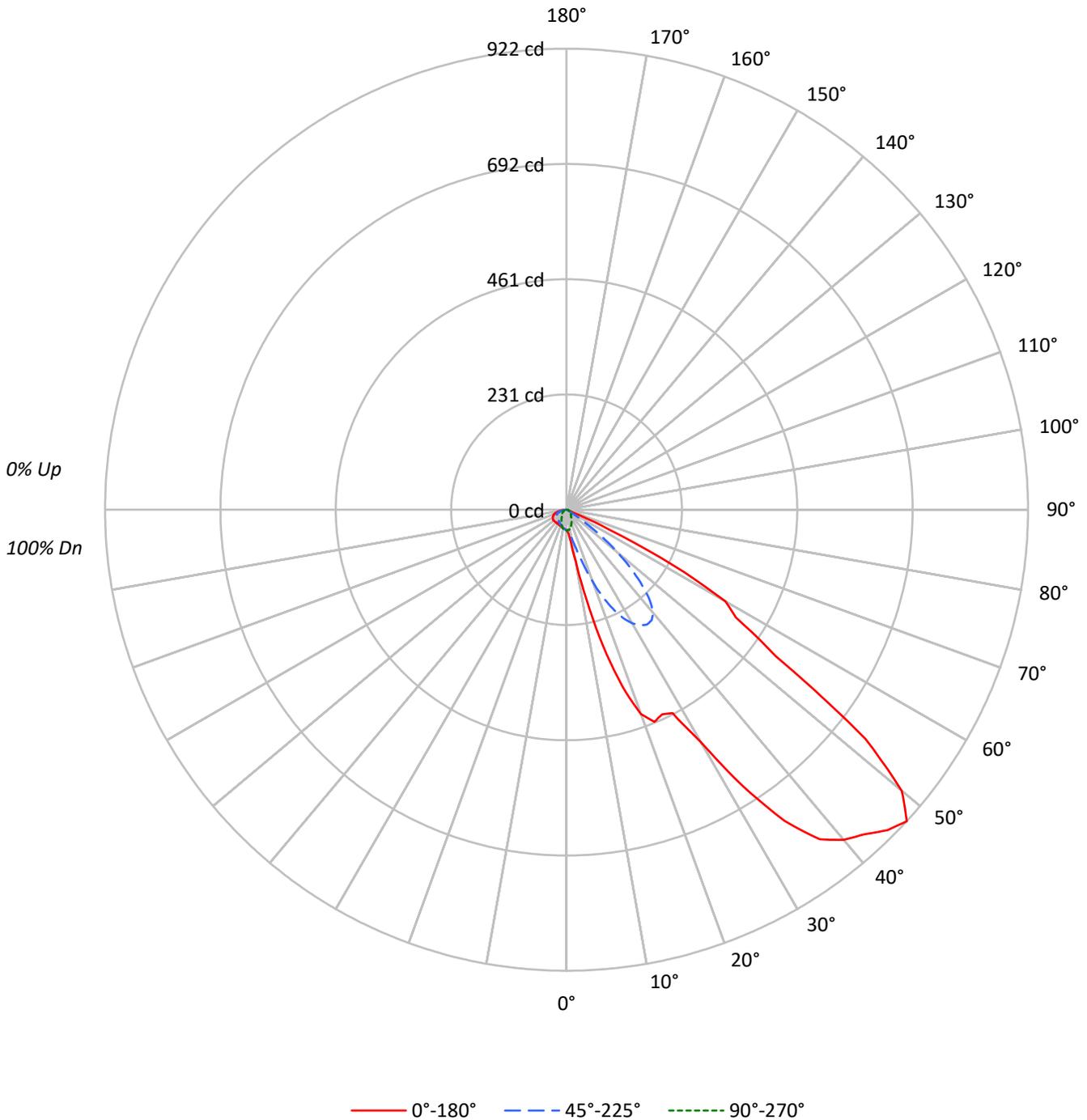
Test Method: LM-79-2019  
Report Number: P1314371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509730DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 520.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 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 (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	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°	7113	7113	7113	7113	7113
5°	8471	7918	7071	6760	6673
10°	18222	9811	6750	6523	6593
15°	50458	16100	6080	6240	6490
20°	79762	28243	5260	6011	6341
25°	85778	41483	4523	5796	6404
30°	106473	52083	3938	5707	6602
35°	159786	58932	3406	5761	6980
40°	193773	60589	3035	5958	7374
45°	220762	51951	2947	6357	8086
50°	234306	35849	3001	6859	9029
55°	153073	14443	2973	7416	9969
60°	126239	2480	2928	8060	10988
65°	38062	1263	2730	8599	12062
70°	1561	1360	2719	8812	13143
75°	1464	1464	2662	8983	14373
80°	1289	1289	2678	8926	14679
85°	790	1778	3557	8892	14227

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 235063 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.3	0.8
10°-20°	24.6	4.7
20°-30°	63.3	12.2
30°-40°	113.7	21.9
40°-50°	151.9	29.2
50°-60°	115.7	22.2
60°-70°	35.1	6.8
70°-80°	8.4	1.6
80°-90°	3.0	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°	92.2	17.7
0°-40°	205.9	39.6
0°-60°	473.5	91.1
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	49	46	41	39	39	6
15°	283	90	34	35	36	83
25°	451	218	24	30	34	215
35°	760	280	16	27	33	467
45°	906	213	12	26	33	693
55°	510	48	10	25	33	507
65°	93	3	7	21	30	129
75°	2	2	4	14	22	2
85°	0	1	2	4	7	1
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°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
2.5°	44.0	44.0	44.0	44.0	44.0	44.0	43.6	43.6	43.6	42.7	41.8
5°	49.0	49.4	49.0	49.0	48.1	48.1	47.2	47.2	45.8	43.1	40.9
7.5°	64.2	63.8	63.3	61.5	60.2	57.0	55.7	53.4	49.4	43.1	40.0
10°	104.2	101.5	99.7	95.7	87.1	81.7	74.6	67.4	56.1	43.1	38.6
12.5°	181.0	180.6	175.2	161.7	149.6	132.9	115.4	97.9	69.2	42.2	36.8
15°	283.0	278.9	271.3	255.6	234.0	208.0	176.5	145.5	90.3	40.9	34.1
17.5°	370.1	365.2	359.3	343.6	318.9	286.1	248.4	205.7	119.0	39.1	31.4
20°	435.2	432.1	427.1	414.6	391.2	361.6	319.3	267.7	154.1	36.8	28.7
22.5°	459.0	458.6	459.5	455.0	443.3	420.0	379.5	325.6	188.6	34.1	26.1
25°	451.4	450.9	456.8	462.6	465.3	455.9	424.9	372.3	218.3	31.9	23.8
27.5°	458.6	457.2	454.5	455.4	463.1	468.5	454.1	408.3	243.9	28.7	21.6
30°	535.4	527.7	515.6	495.0	479.7	478.3	472.1	436.6	261.9	25.6	19.8
32.5°	655.3	645.9	623.9	585.7	549.3	521.5	501.7	460.4	274.4	22.5	17.5
35°	760.0	753.2	727.6	689.9	637.8	585.7	549.8	495.4	280.3	19.8	16.2
37.5°	830.9	828.2	803.1	762.6	709.6	648.1	600.5	531.3	278.9	16.6	14.8
40°	861.9	853.8	832.7	798.6	745.1	689.9	639.6	554.2	269.5	13.5	13.5
42.5°	880.3	871.3	848.4	816.1	763.5	704.7	644.1	544.4	247.0	10.8	13.0
45°	906.4	896.9	866.8	832.3	779.3	711.0	626.6	509.3	213.3	8.1	12.1
47.5°	922.1	915.8	893.3	858.8	794.5	702.0	586.1	476.5	176.1	6.3	11.7
50°	874.5	868.2	851.6	827.8	784.7	671.9	550.7	423.5	133.8	4.9	11.2
52.5°	752.8	758.2	761.3	768.0	736.6	604.5	497.7	381.3	90.3	4.0	10.3
55°	509.8	517.9	526.8	553.8	590.6	538.1	442.0	329.7	48.1	4.0	9.9
57.5°	400.6	397.9	395.2	393.5	422.2	443.8	388.5	263.6	20.7	4.0	9.0
60°	366.5	358.4	353.0	354.4	368.7	360.2	307.7	172.0	7.2	4.0	8.5
62.5°	240.3	246.6	258.7	279.4	269.5	231.3	178.8	68.3	3.6	4.0	7.6
65°	93.4	90.3	93.4	99.3	85.8	63.8	40.0	12.1	3.1	3.6	6.7
67.5°	12.6	11.2	8.5	5.4	4.9	4.5	3.6	3.1	3.1	3.6	6.3
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	2.7	2.7	3.1	5.4
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.1	4.5
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	4.0
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	3.1
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	2.7
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.8	2.2
85°	0.4	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3	1.3
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°	41.3	41.3	41.3	41.3
2.5°	40.9	40.0	40.0	40.0
5°	40.0	39.1	39.1	38.6
7.5°	38.6	38.2	38.2	38.2
10°	37.7	37.3	37.7	37.7
12.5°	35.9	36.4	36.8	36.8
15°	34.1	35.0	35.9	36.4
17.5°	32.3	34.1	35.0	35.5
20°	30.5	32.8	34.1	34.6
22.5°	29.2	31.4	33.2	34.1
25°	27.4	30.5	32.8	33.7
27.5°	25.6	29.2	31.9	33.2
30°	24.3	28.7	31.9	33.2
32.5°	22.9	27.8	31.4	32.8
35°	22.0	27.4	31.4	33.2
37.5°	21.1	26.9	31.4	32.8
40°	20.7	26.5	31.4	32.8
42.5°	20.2	26.5	31.4	33.2
45°	19.3	26.1	31.4	33.2
47.5°	18.9	26.1	31.4	33.2
50°	18.4	25.6	31.4	33.7
52.5°	18.0	25.2	31.4	33.7
55°	17.1	24.7	31.0	33.2
57.5°	16.6	24.3	30.5	32.3
60°	15.7	23.4	29.6	31.9
62.5°	14.8	22.5	28.7	30.5
65°	13.5	21.1	27.4	29.6
67.5°	12.1	19.3	26.1	28.3
70°	10.8	17.5	24.3	26.1
72.5°	9.4	15.7	22.5	23.8
75°	8.1	13.5	19.8	21.6
77.5°	6.7	11.7	16.6	18.0
80°	4.9	9.0	13.5	14.8
82.5°	4.0	6.7	9.9	10.8
85°	2.7	4.5	6.3	7.2
87.5°	1.3	2.2	3.1	3.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)