

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: P1319872

Luminaire Tested: LDSQA3D05R559840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

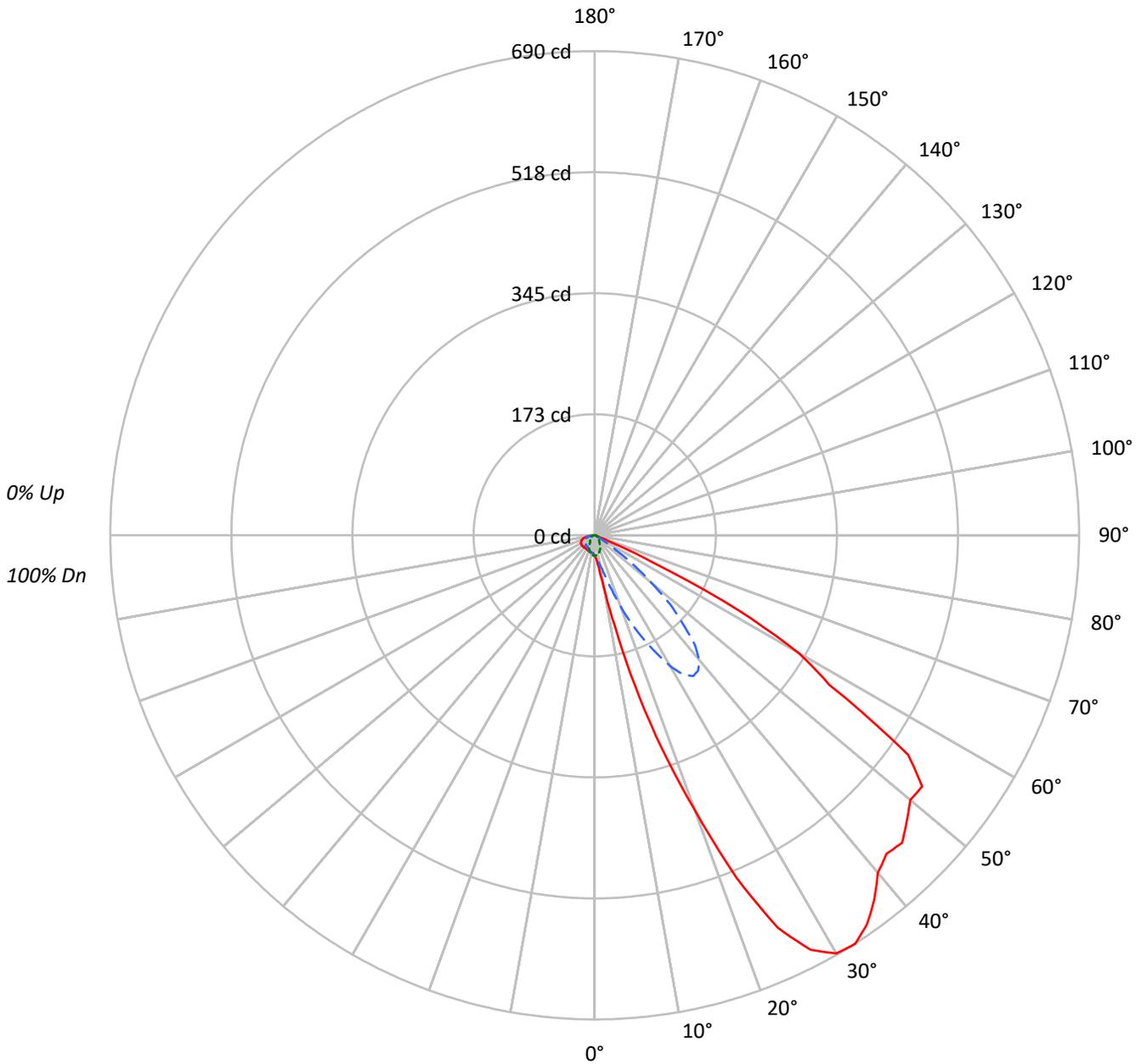
Test Method: LM-79-2019  
Report Number: P1319872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R559840DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 444.0 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
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



— 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	99	107	104	100	97	99	97	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	54	54	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	46	46	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	29	29	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	26	26	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	23	23	23	21

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

	0°	45°	90°	135°	180°
0°	4926	4926	4926	4926	4926
5°	6310	5757	4944	4616	4478
10°	12836	7345	4809	4389	4389
15°	39386	11268	4475	4261	4404
20°	76133	19702	4032	4179	4380
25°	117189	30632	3496	4029	4390
30°	136839	42836	2884	3977	4534
35°	142189	51468	2397	3953	4709
40°	141120	51956	2203	4137	5126
45°	150861	42988	2095	4481	5553
50°	157249	28374	2090	4823	6189
55°	163732	12371	2132	5315	6846
60°	115665	2824	2170	5821	7716
65°	37736	978	2078	6235	8639
70°	1209	1007	2165	6697	9869
75°	1065	1065	1797	7053	10979
80°	793	1190	1984	7042	11703
85°	790	1581	2371	6916	11659

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 166377 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.0	0.7
10°-20°	18.8	4.2
20°-30°	63.2	14.2
30°-40°	103.8	23.4
40°-50°	115.8	26.1
50°-60°	97.4	21.9
60°-70°	33.0	7.4
70°-80°	6.5	1.5
80°-90°	2.4	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°	85.1	19.2
0°-40°	188.9	42.5
0°-60°	402.1	90.5
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	36	33	29	27	26	5
15°	221	63	25	24	25	70
25°	617	161	18	21	23	277
35°	676	245	11	19	22	420
45°	619	176	9	18	23	473
55°	545	41	7	18	23	444
65°	93	2	5	15	21	125
75°	2	2	3	11	16	2
85°	0	1	1	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°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
2.5°	31.4	31.4	31.4	31.4	31.4	31.4	31.0	29.8	29.0	27.9	27.5
5°	36.5	36.5	36.5	36.1	36.1	35.3	33.3	30.6	28.6	27.1	26.7
7.5°	47.1	46.7	45.9	45.5	44.3	43.9	36.9	31.4	28.2	26.3	25.9
10°	73.4	72.6	71.4	67.1	63.2	60.4	42.0	31.8	27.5	25.5	25.1
12.5°	132.2	130.6	124.8	115.7	104.7	99.3	50.2	32.2	26.3	24.7	24.7
15°	220.9	218.9	207.9	195.4	175.4	164.4	63.2	31.8	25.1	23.5	23.9
17.5°	318.9	313.4	302.1	285.6	258.5	245.6	82.4	31.0	23.5	22.8	23.5
20°	415.4	413.9	395.0	372.7	339.3	322.1	107.5	29.8	22.0	21.6	22.8
22.5°	528.4	521.8	501.8	477.8	431.9	409.2	134.6	28.2	20.4	20.4	22.0
25°	616.7	608.9	593.2	565.3	521.8	497.4	161.2	26.3	18.4	19.2	21.2
27.5°	666.1	657.1	645.3	621.4	587.7	566.1	187.9	23.9	16.5	18.0	20.4
30°	688.1	685.7	677.1	659.5	628.5	609.2	215.4	21.2	14.5	16.9	20.0
32.5°	690.4	691.6	688.1	676.7	653.2	636.7	235.8	18.8	12.9	16.1	19.2
35°	676.3	680.6	683.0	678.3	663.0	649.6	244.8	16.1	11.4	15.3	18.8
37.5°	654.4	662.2	670.0	671.2	661.8	653.2	242.4	13.7	10.6	14.9	18.8
40°	627.7	634.7	650.8	661.0	657.9	651.6	231.1	11.4	9.8	14.1	18.4
42.5°	615.5	617.1	634.4	651.6	650.8	645.7	211.1	9.0	9.0	14.1	18.4
45°	619.4	612.4	623.8	643.8	642.6	635.9	176.5	7.1	8.6	13.7	18.4
47.5°	603.0	593.2	612.4	635.9	631.6	621.8	145.9	5.1	8.2	13.3	18.0
50°	586.9	585.3	600.2	612.0	606.1	600.6	105.9	3.9	7.8	12.9	18.0
52.5°	588.1	585.3	586.9	586.5	574.7	568.8	72.6	3.1	7.5	12.6	18.0
55°	545.3	536.7	528.4	530.8	531.6	527.6	41.2	2.7	7.1	12.6	17.7
57.5°	396.2	393.9	402.9	428.4	448.4	450.8	20.0	2.7	6.7	12.2	17.3
60°	335.8	334.2	334.6	342.1	352.7	346.0	8.2	2.7	6.3	11.8	16.9
62.5°	231.5	246.8	253.0	270.3	263.2	253.8	3.1	3.1	5.9	11.0	16.5
65°	92.6	92.2	100.8	109.1	106.7	99.6	2.4	2.7	5.1	10.2	15.3
67.5°	21.6	19.6	16.9	14.5	12.2	9.8	2.4	2.7	4.7	9.4	14.5
70°	2.4	2.4	2.4	2.4	2.4	2.0	2.0	2.7	4.3	8.6	13.3
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	3.5	7.5	12.2
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.7	6.3	10.6
77.5°	1.2	1.2	1.2	1.6	1.2	1.6	1.6	2.0	2.4	5.1	9.0
80°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	2.0	4.3	7.1
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	3.1	5.1
85°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	2.4	3.5
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	1.6
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):**

	157.5°	180°
0°	28.6	28.6
2.5°	27.1	27.1
5°	26.3	25.9
7.5°	25.5	25.5
10°	25.1	25.1
12.5°	24.7	25.1
15°	24.7	24.7
17.5°	23.9	24.3
20°	23.5	23.9
22.5°	23.1	23.5
25°	22.8	23.1
27.5°	22.4	22.8
30°	22.0	22.8
32.5°	21.6	22.4
35°	21.6	22.4
37.5°	21.6	22.8
40°	21.6	22.8
42.5°	21.6	22.8
45°	21.6	22.8
47.5°	21.6	22.8
50°	21.6	23.1
52.5°	21.6	23.1
55°	21.6	22.8
57.5°	21.2	22.8
60°	21.2	22.4
62.5°	20.8	22.0
65°	20.0	21.2
67.5°	19.2	20.8
70°	18.0	19.6
72.5°	16.9	18.0
75°	15.3	16.5
77.5°	13.3	14.1
80°	10.6	11.8
82.5°	8.2	9.0
85°	5.5	5.9
87.5°	2.4	2.7
90°	0.0	0.0

(END OF REPORT)