

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: P1326970

Luminaire Tested: LDSQA3D09R55W2N902750DE010 3LSQCA45R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

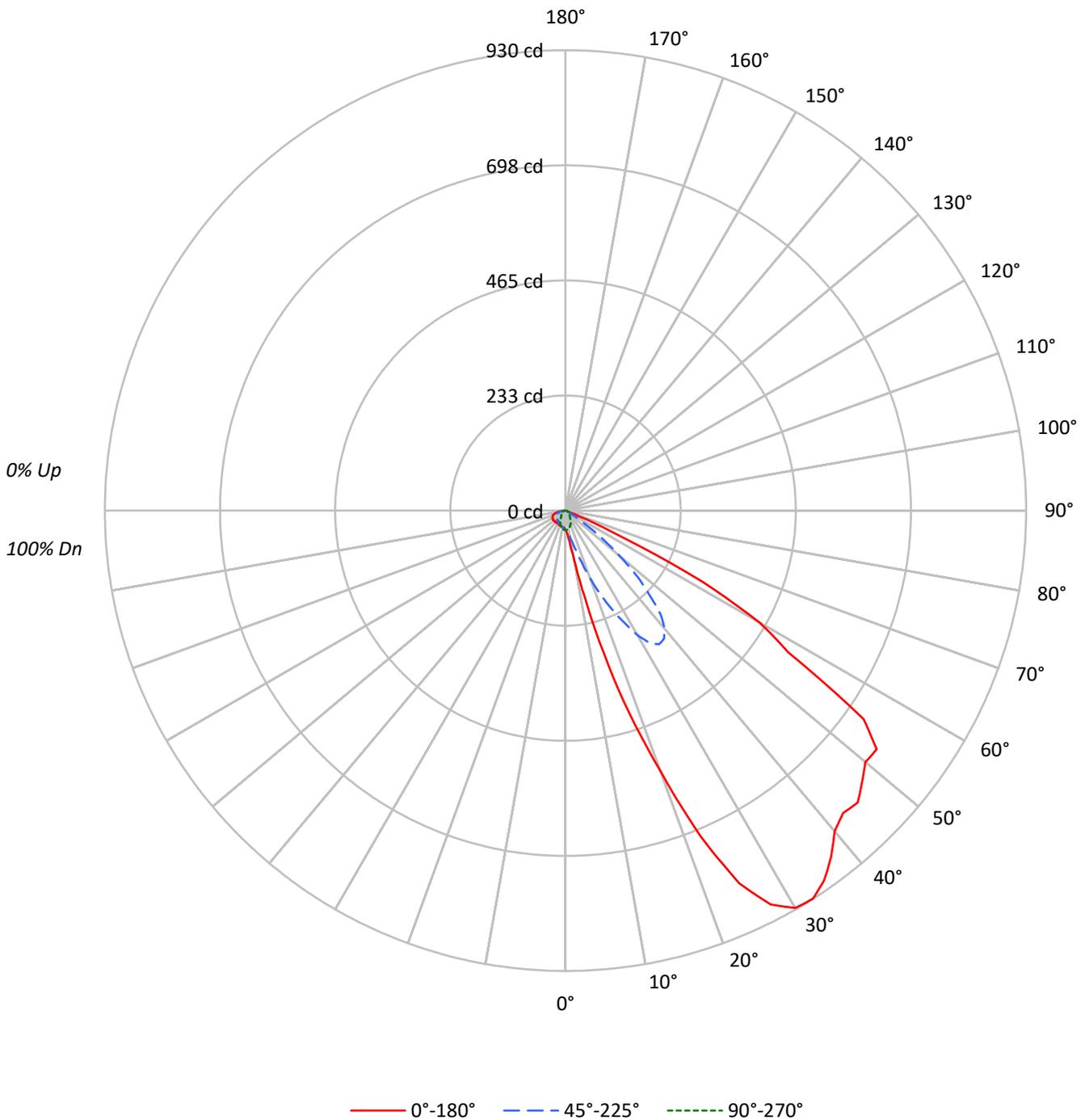
Test Method: LM-79-2019  
Report Number: P1326970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R55W2N902750DE010 3LSQCA45R 1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R55 optic, 2700K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 598.0 lumens  
Efficiency: N/A  
Efficacy: 66.4 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9  
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	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	100													
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86													
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73													
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61													
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51													
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43													
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37													
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32													
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27													
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24													
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21													

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

	0°	45°	90°	135°	180°
0°	6648	6648	6648	6648	6648
5°	8488	7762	6673	6206	6034
10°	17278	9881	6471	5911	5911
15°	53044	15173	6026	5741	5937
20°	102543	26538	5425	5608	5901
25°	157836	41274	4713	5416	5929
30°	184309	57691	3878	5349	6085
35°	191512	69318	3217	5340	6328
40°	190063	69964	2968	5576	6880
45°	203202	57918	2825	6040	7453
50°	211773	38234	2840	6511	8359
55°	220512	16664	2852	7146	9188
60°	155793	3823	2928	7819	10368
65°	50817	1304	2812	8395	11614
70°	1611	1309	2921	9064	13294
75°	1397	1397	2462	9515	14772
80°	1091	1587	2579	9422	15769
85°	988	2174	3162	9485	15611

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 224062 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.1	0.7
10°-20°	25.4	4.2
20°-30°	85.1	14.2
30°-40°	139.8	23.4
40°-50°	155.9	26.1
50°-60°	131.2	21.9
60°-70°	44.5	7.4
70°-80°	8.7	1.5
80°-90°	3.3	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
<b>0°-30°</b>	<b>114.6</b>	<b>19.2</b>
<b>0°-40°</b>	<b>254.4</b>	<b>42.5</b>
<b>0°-60°</b>	<b>541.5</b>	<b>90.6</b>
<b>0°-90°</b>	<b>598.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>598.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	49	45	39	36	35	6
15°	298	85	34	32	33	94
25°	831	217	25	28	31	373
35°	911	330	15	25	30	566
45°	834	238	12	25	31	637
55°	734	56	10	24	31	598
65°	125	3	7	21	28	169
75°	2	2	4	14	22	2
85°	0	1	2	5	8	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°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
2.5°	42.3	42.3	42.3	42.3	42.3	42.3	41.7	40.2	39.1	37.5	37.0
5°	49.1	49.1	49.1	48.6	48.6	47.6	44.9	41.2	38.6	36.5	35.9
7.5°	63.4	62.9	61.8	61.3	59.7	59.2	49.7	42.3	38.0	35.4	34.9
10°	98.8	97.7	96.2	90.4	85.1	81.4	56.5	42.8	37.0	34.3	33.8
12.5°	178.1	175.9	168.0	155.9	141.1	133.7	67.6	43.3	35.4	33.3	33.3
15°	297.5	294.8	280.0	263.1	236.2	221.4	85.1	42.8	33.8	31.7	32.2
17.5°	429.6	422.2	406.8	384.7	348.2	330.8	111.0	41.7	31.7	30.6	31.7
20°	559.5	557.4	532.1	502.0	457.0	433.8	144.8	40.2	29.6	29.1	30.6
22.5°	711.7	702.7	675.8	643.6	581.7	551.1	181.2	38.0	27.5	27.5	29.6
25°	830.6	820.0	798.9	761.4	702.7	670.0	217.2	35.4	24.8	25.9	28.5
27.5°	897.2	885.0	869.2	836.9	791.5	762.4	253.1	32.2	22.2	24.3	27.5
30°	926.8	923.6	912.0	888.2	846.4	820.6	290.1	28.5	19.5	22.7	26.9
32.5°	929.9	931.5	926.8	911.4	879.7	857.5	317.5	25.4	17.4	21.7	25.9
35°	910.9	916.7	919.9	913.5	892.9	875.0	329.7	21.7	15.3	20.6	25.4
37.5°	881.3	891.9	902.5	904.0	891.4	879.7	326.5	18.5	14.3	20.1	25.4
40°	845.4	854.9	876.6	890.3	886.1	877.6	311.2	15.3	13.2	19.0	24.8
42.5°	829.0	831.1	854.4	877.6	876.6	869.7	284.3	12.2	12.2	19.0	24.8
45°	834.3	824.8	840.1	867.1	865.5	856.5	237.8	9.5	11.6	18.5	24.8
47.5°	812.1	798.9	824.8	856.5	850.7	837.5	196.6	6.9	11.1	18.0	24.3
50°	790.4	788.3	808.4	824.3	816.3	808.9	142.7	5.3	10.6	17.4	24.3
52.5°	792.0	788.3	790.4	789.9	774.1	766.1	97.7	4.2	10.0	16.9	24.3
55°	734.4	722.8	711.7	714.9	715.9	710.7	55.5	3.7	9.5	16.9	23.8
57.5°	533.7	530.5	542.6	577.0	603.9	607.1	26.9	3.7	9.0	16.4	23.2
60°	452.3	450.2	450.7	460.7	475.0	466.0	11.1	3.7	8.5	15.9	22.7
62.5°	311.7	332.3	340.8	364.0	354.5	341.9	4.2	4.2	7.9	14.8	22.2
65°	124.7	124.2	135.8	146.9	143.7	134.2	3.2	3.7	6.9	13.7	20.6
67.5°	29.1	26.4	22.7	19.5	16.4	13.2	3.2	3.7	6.3	12.7	19.5
70°	3.2	3.2	3.2	3.2	3.2	2.6	2.6	3.7	5.8	11.6	18.0
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	4.8	10.0	16.4
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.7	8.5	14.3
77.5°	1.6	1.6	1.6	2.1	1.6	2.1	2.1	2.6	3.2	6.9	12.2
80°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	2.1	2.6	5.8	9.5
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.1	4.2	6.9
85°	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6	3.2	4.8
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6	2.1
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°	38.6	38.6
2.5°	36.5	36.5
5°	35.4	34.9
7.5°	34.3	34.3
10°	33.8	33.8
12.5°	33.3	33.8
15°	33.3	33.3
17.5°	32.2	32.8
20°	31.7	32.2
22.5°	31.2	31.7
25°	30.6	31.2
27.5°	30.1	30.6
30°	29.6	30.6
32.5°	29.1	30.1
35°	29.1	30.1
37.5°	29.1	30.6
40°	29.1	30.6
42.5°	29.1	30.6
45°	29.1	30.6
47.5°	29.1	30.6
50°	29.1	31.2
52.5°	29.1	31.2
55°	29.1	30.6
57.5°	28.5	30.6
60°	28.5	30.1
62.5°	28.0	29.6
65°	26.9	28.5
67.5°	25.9	28.0
70°	24.3	26.4
72.5°	22.7	24.3
75°	20.6	22.2
77.5°	18.0	19.0
80°	14.3	15.9
82.5°	11.1	12.2
85°	7.4	7.9
87.5°	3.2	3.7
90°	0.0	0.0

(END OF REPORT)