

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: P1327017

Luminaire Tested: LDSQA3D09R55W2N902765DE010 3LSQCA45R 1MMS\_4000K

Issue Date: 1/29/2026

**Test Information**

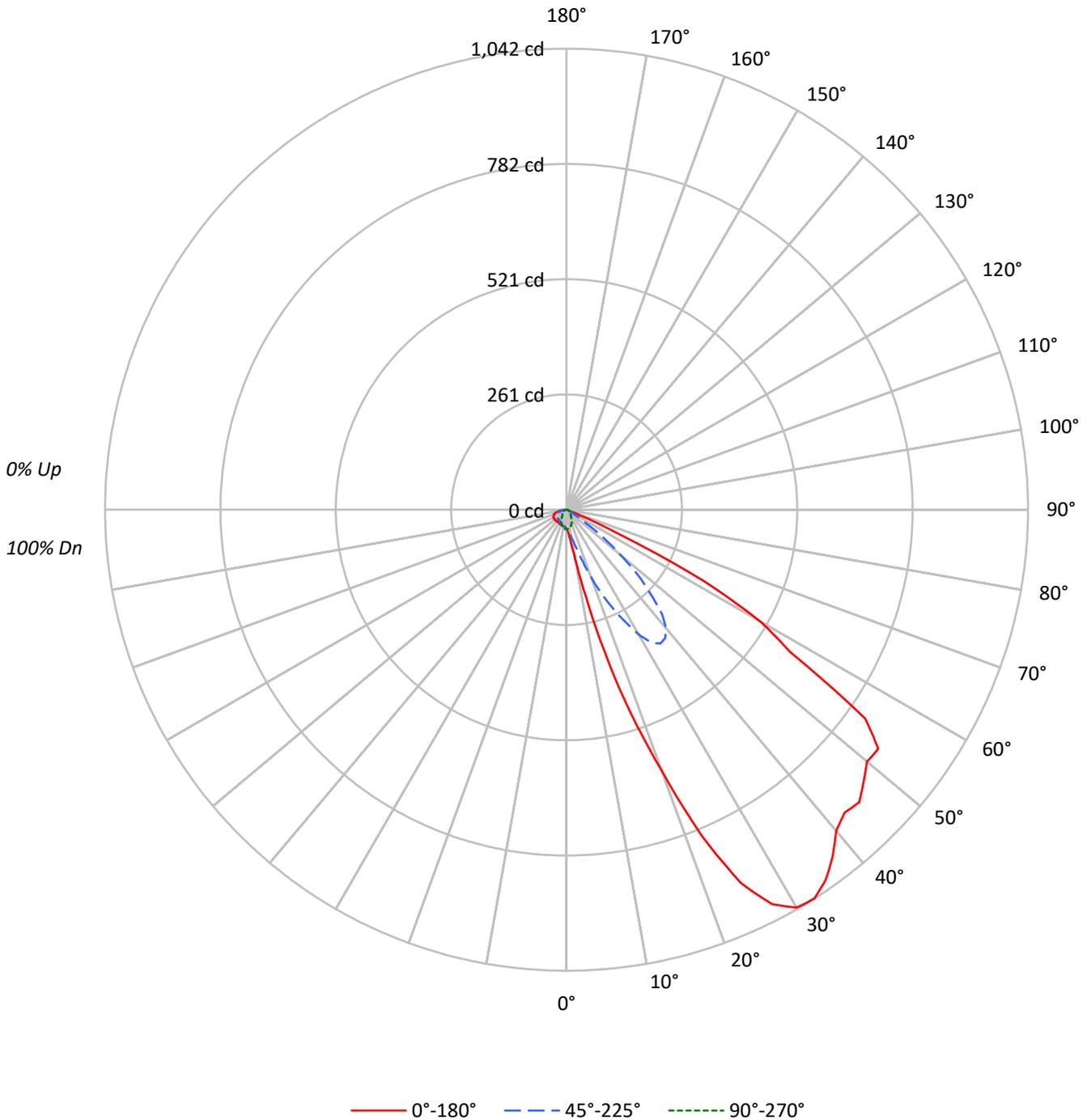
Test Method: LM-79-2019  
Report Number: P1327017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R55W2N902765DE010 3LSQCA45R 1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R55 optic, 4000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 670.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 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): 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	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°	7440	7440	7440	7440	7440
5°	9526	8696	7468	6967	6760
10°	19359	11070	7240	6628	6628
15°	59427	16992	6757	6437	6651
20°	114895	29727	6085	6286	6616
25°	176839	46233	5283	6081	6632
30°	206482	64631	4355	6006	6821
35°	214576	77665	3616	5971	7085
40°	212950	78395	3327	6250	7711
45°	227655	64884	3166	6771	8354
50°	237280	42815	3162	7288	9351
55°	247085	18676	3213	7987	10299
60°	174530	4271	3272	8783	11608
65°	56930	1467	3138	9414	13040
70°	1813	1511	3273	10121	14905
75°	1597	1597	2728	10647	16569
80°	1190	1785	2975	10612	17654
85°	1186	2371	3557	10473	17587

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 251051 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.6	0.7
10°-20°	28.4	4.2
20°-30°	95.4	14.2
30°-40°	156.6	23.4
40°-50°	174.7	26.1
50°-60°	147.0	21.9
60°-70°	49.9	7.4
70°-80°	9.8	1.5
80°-90°	3.7	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°	128.4	19.2
0°-40°	285.0	42.5
0°-60°	606.7	90.5
0°-90°	670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	55	50	43	40	39	7
15°	333	95	38	36	37	106
25°	931	243	28	32	35	418
35°	1021	369	17	28	34	634
45°	935	266	13	28	34	714
55°	823	62	11	27	34	670
65°	140	4	8	23	32	189
75°	2	2	4	16	25	3
85°	1	1	2	5	9	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°	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
2.5°	47.4	47.4	47.4	47.4	47.4	47.4	46.8	45.0	43.8	42.0	41.4
5°	55.1	55.1	55.1	54.5	54.5	53.3	50.3	46.2	43.2	40.8	40.3
7.5°	71.0	70.4	69.3	68.7	66.9	66.3	55.6	47.4	42.6	39.7	39.1
10°	110.7	109.5	107.7	101.2	95.3	91.2	63.3	48.0	41.4	38.5	37.9
12.5°	199.5	197.1	188.3	174.6	158.1	149.8	75.8	48.5	39.7	37.3	37.3
15°	333.3	330.3	313.8	294.8	264.6	248.0	95.3	48.0	37.9	35.5	36.1
17.5°	481.3	473.0	455.8	431.0	390.1	370.6	124.3	46.8	35.5	34.3	35.5
20°	626.9	624.5	596.1	562.4	512.1	486.0	162.2	45.0	33.2	32.6	34.3
22.5°	797.4	787.3	757.1	721.0	651.8	617.4	203.1	42.6	30.8	30.8	33.2
25°	930.6	918.8	895.1	853.1	787.3	750.6	243.3	39.7	27.8	29.0	32.0
27.5°	1005.2	991.6	973.8	937.7	886.8	854.2	283.6	36.1	24.9	27.2	30.8
30°	1038.3	1034.8	1021.8	995.1	948.4	919.4	325.0	32.0	21.9	25.5	30.2
32.5°	1041.9	1043.7	1038.3	1021.2	985.7	960.8	355.8	28.4	19.5	24.3	29.0
35°	1020.6	1027.1	1030.6	1023.5	1000.5	980.3	369.4	24.3	17.2	23.1	28.4
37.5°	987.4	999.3	1011.1	1012.9	998.7	985.7	365.8	20.7	16.0	22.5	28.4
40°	947.2	957.8	982.1	997.5	992.8	983.3	348.7	17.2	14.8	21.3	27.8
42.5°	928.8	931.2	957.2	983.3	982.1	974.4	318.5	13.6	13.6	21.3	27.8
45°	934.7	924.1	941.3	971.4	969.7	959.6	266.4	10.7	13.0	20.7	27.8
47.5°	909.9	895.1	924.1	959.6	953.1	938.3	220.2	7.7	12.4	20.1	27.2
50°	885.6	883.2	905.7	923.5	914.6	906.3	159.8	5.9	11.8	19.5	27.2
52.5°	887.4	883.2	885.6	885.0	867.3	858.4	109.5	4.7	11.2	18.9	27.2
55°	822.9	809.8	797.4	801.0	802.1	796.2	62.2	4.1	10.7	18.9	26.6
57.5°	597.9	594.4	608.0	646.4	676.6	680.2	30.2	4.1	10.1	18.4	26.0
60°	506.7	504.4	505.0	516.2	532.2	522.1	12.4	4.1	9.5	17.8	25.5
62.5°	349.3	372.4	381.8	407.9	397.2	383.0	4.7	4.7	8.9	16.6	24.9
65°	139.7	139.1	152.1	164.6	161.0	150.4	3.6	4.1	7.7	15.4	23.1
67.5°	32.6	29.6	25.5	21.9	18.4	14.8	3.6	4.1	7.1	14.2	21.9
70°	3.6	3.6	3.6	3.6	3.6	3.0	3.0	4.1	6.5	13.0	20.1
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.6	5.3	11.2	18.4
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	4.1	9.5	16.0
77.5°	1.8	1.8	1.8	2.4	1.8	2.4	2.4	3.0	3.6	7.7	13.6
80°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4	3.0	6.5	10.7
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	4.7	7.7
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	1.8	3.6	5.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	1.8	2.4
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°	43.2	43.2
2.5°	40.8	40.8
5°	39.7	39.1
7.5°	38.5	38.5
10°	37.9	37.9
12.5°	37.3	37.9
15°	37.3	37.3
17.5°	36.1	36.7
20°	35.5	36.1
22.5°	34.9	35.5
25°	34.3	34.9
27.5°	33.7	34.3
30°	33.2	34.3
32.5°	32.6	33.7
35°	32.6	33.7
37.5°	32.6	34.3
40°	32.6	34.3
42.5°	32.6	34.3
45°	32.6	34.3
47.5°	32.6	34.3
50°	32.6	34.9
52.5°	32.6	34.9
55°	32.6	34.3
57.5°	32.0	34.3
60°	32.0	33.7
62.5°	31.4	33.2
65°	30.2	32.0
67.5°	29.0	31.4
70°	27.2	29.6
72.5°	25.5	27.2
75°	23.1	24.9
77.5°	20.1	21.3
80°	16.0	17.8
82.5°	12.4	13.6
85°	8.3	8.9
87.5°	3.6	4.1
90°	0.0	0.0

(END OF REPORT)