

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: P1326969

Luminaire Tested: LDSQA3D09R55W2N902750DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326969
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 1MMS_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R55 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

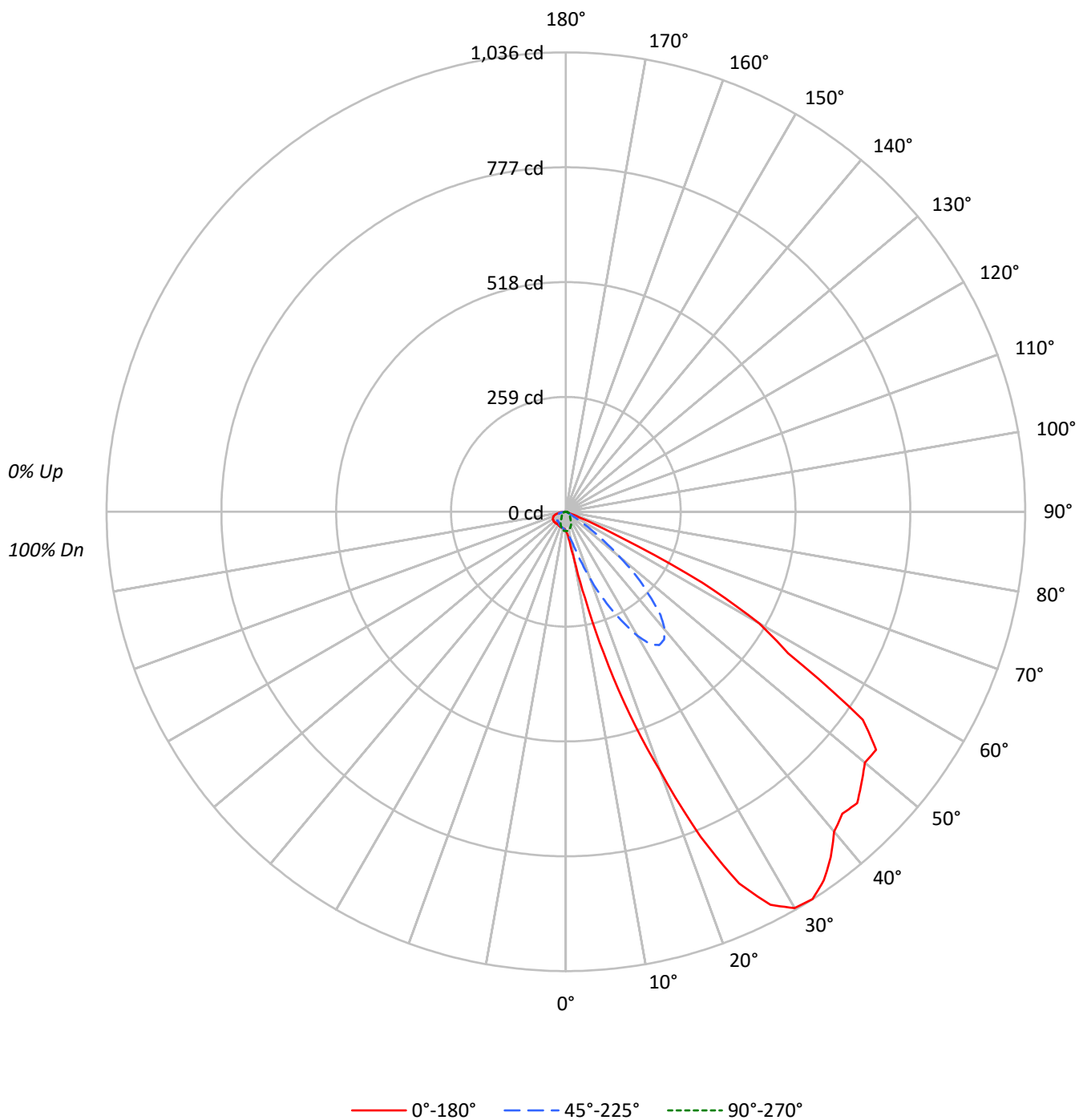
Lumens per Lamp: N/A
Luminaire Lumens: 666.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1326969

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	7406	7406	7406	7406	7406
5°	9457	8644	7434	6915	6708
10°	19237	11017	7205	6593	6593
15°	59070	16885	6722	6401	6615
20°	114217	29544	6048	6250	6580
25°	175775	45967	5264	6043	6594
30°	205249	64253	4335	5966	6781
35°	213294	77202	3595	5929	7043
40°	211669	77923	3305	6228	7666
45°	226316	64495	3142	6747	8305
50°	235860	42574	3162	7261	9297
55°	245583	18556	3183	7957	10239
60°	173497	4271	3238	8714	11539
65°	56604	1426	3097	9332	12959
70°	1762	1460	3273	10071	14804
75°	1597	1597	2728	10580	16436
80°	1190	1785	2876	10513	17555
85°	1186	2371	3557	10473	17389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 249552 cd/sqm

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CATALOG NUMBER: LDSQA3D09R55W2N902750DE010 3LSQCA45R 1MMS_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.7
10°-20°	28.3	4.2
20°-30°	94.8	14.2
30°-40°	155.7	23.4
40°-50°	173.6	26.1
50°-60°	146.2	21.9
60°-70°	49.6	7.4
70°-80°	9.7	1.5
80°-90°	3.6	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°	127.6	19.2
0°-40°	283.3	42.5
0°-60°	603.1	90.6
0°-90°	666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	55	50	43	40	39	7
15°	331	95	38	36	37	105
25°	925	242	28	32	35	416
35°	1014	367	17	28	34	630
45°	929	265	13	28	34	710
55°	818	62	11	26	34	666
65°	139	4	8	23	32	188
75°	2	2	4	16	25	2
85°	1	1	2	5	9	1
90°	0	0	0	0	0	

TEST NUMBER: P1326969

CATALOG NUMBER: LDSQA3D09R55W2N902750DE010 3LSQCA45R 1MMS_5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
2.5°	47.1	47.1	47.1	47.1	47.1	47.1	46.5	44.7	43.5	41.8	41.2
5°	54.7	54.7	54.7	54.1	54.1	53.0	50.0	45.9	43.0	40.6	40.0
7.5°	70.6	70.0	68.8	68.3	66.5	65.9	55.3	47.1	42.4	39.4	38.8
10°	110.0	108.9	107.1	100.6	94.7	90.6	63.0	47.7	41.2	38.2	37.7
12.5°	198.3	196.0	187.1	173.6	157.1	148.9	75.3	48.3	39.4	37.1	37.1
15°	331.3	328.4	311.9	293.0	263.0	246.6	94.7	47.7	37.7	35.3	35.9
17.5°	478.4	470.2	453.1	428.4	387.8	368.4	123.6	46.5	35.3	34.1	35.3
20°	623.2	620.8	592.6	559.0	509.0	483.1	161.2	44.7	33.0	32.4	34.1
22.5°	792.6	782.6	752.6	716.7	647.9	613.8	201.8	42.4	30.6	30.6	33.0
25°	925.0	913.3	889.7	848.0	782.6	746.2	241.9	39.4	27.7	28.8	31.8
27.5°	999.2	985.7	968.0	932.1	881.5	849.1	281.9	35.9	24.7	27.1	30.6
30°	1032.1	1028.6	1015.7	989.2	942.7	913.9	323.1	31.8	21.8	25.3	30.0
32.5°	1035.7	1037.4	1032.1	1015.1	979.8	955.1	353.7	28.2	19.4	24.1	28.8
35°	1014.5	1021.0	1024.5	1017.4	994.5	974.5	367.2	24.1	17.1	22.9	28.2
37.5°	981.5	993.3	1005.1	1006.8	992.7	979.8	363.7	20.6	15.9	22.4	28.2
40°	941.5	952.1	976.2	991.5	986.8	977.4	346.6	17.1	14.7	21.2	27.7
42.5°	923.3	925.6	951.5	977.4	976.2	968.6	316.6	13.5	13.5	21.2	27.7
45°	929.2	918.6	935.6	965.6	963.9	953.9	264.8	10.6	12.9	20.6	27.7
47.5°	904.4	889.7	918.6	953.9	947.4	932.7	218.9	7.6	12.4	20.0	27.1
50°	880.3	878.0	900.3	918.0	909.2	900.9	158.9	5.9	11.8	19.4	27.1
52.5°	882.1	878.0	880.3	879.7	862.1	853.3	108.9	4.7	11.2	18.8	27.1
55°	817.9	805.0	792.6	796.2	797.4	791.5	61.8	4.1	10.6	18.8	26.5
57.5°	594.3	590.8	604.3	642.6	672.6	676.1	30.0	4.1	10.0	18.2	25.9
60°	503.7	501.4	501.9	513.1	529.0	519.0	12.4	4.1	9.4	17.7	25.3
62.5°	347.2	370.1	379.6	405.4	394.9	380.7	4.7	4.7	8.8	16.5	24.7
65°	138.9	138.3	151.2	163.6	160.1	149.5	3.5	4.1	7.6	15.3	22.9
67.5°	32.4	29.4	25.3	21.8	18.2	14.7	3.5	4.1	7.1	14.1	21.8
70°	3.5	3.5	3.5	3.5	3.5	2.9	2.9	4.1	6.5	12.9	20.0
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	5.3	11.2	18.2
75°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	4.1	9.4	15.9
77.5°	1.8	1.8	1.8	2.4	1.8	2.4	2.4	2.9	3.5	7.6	13.5
80°	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4	2.9	6.5	10.6
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	4.7	7.6
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8	1.8	3.5	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°	43.0	43.0
2.5°	40.6	40.6
5°	39.4	38.8
7.5°	38.2	38.2
10°	37.7	37.7
12.5°	37.1	37.7
15°	37.1	37.1
17.5°	35.9	36.5
20°	35.3	35.9
22.5°	34.7	35.3
25°	34.1	34.7
27.5°	33.5	34.1
30°	33.0	34.1
32.5°	32.4	33.5
35°	32.4	33.5
37.5°	32.4	34.1
40°	32.4	34.1
42.5°	32.4	34.1
45°	32.4	34.1
47.5°	32.4	34.1
50°	32.4	34.7
52.5°	32.4	34.7
55°	32.4	34.1
57.5°	31.8	34.1
60°	31.8	33.5
62.5°	31.2	33.0
65°	30.0	31.8
67.5°	28.8	31.2
70°	27.1	29.4
72.5°	25.3	27.1
75°	22.9	24.7
77.5°	20.0	21.2
80°	15.9	17.7
82.5°	12.4	13.5
85°	8.2	8.8
87.5°	3.5	4.1
90°	0.0	0.0

(END OF REPORT)