

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: P1326816

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R45W2N902765DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

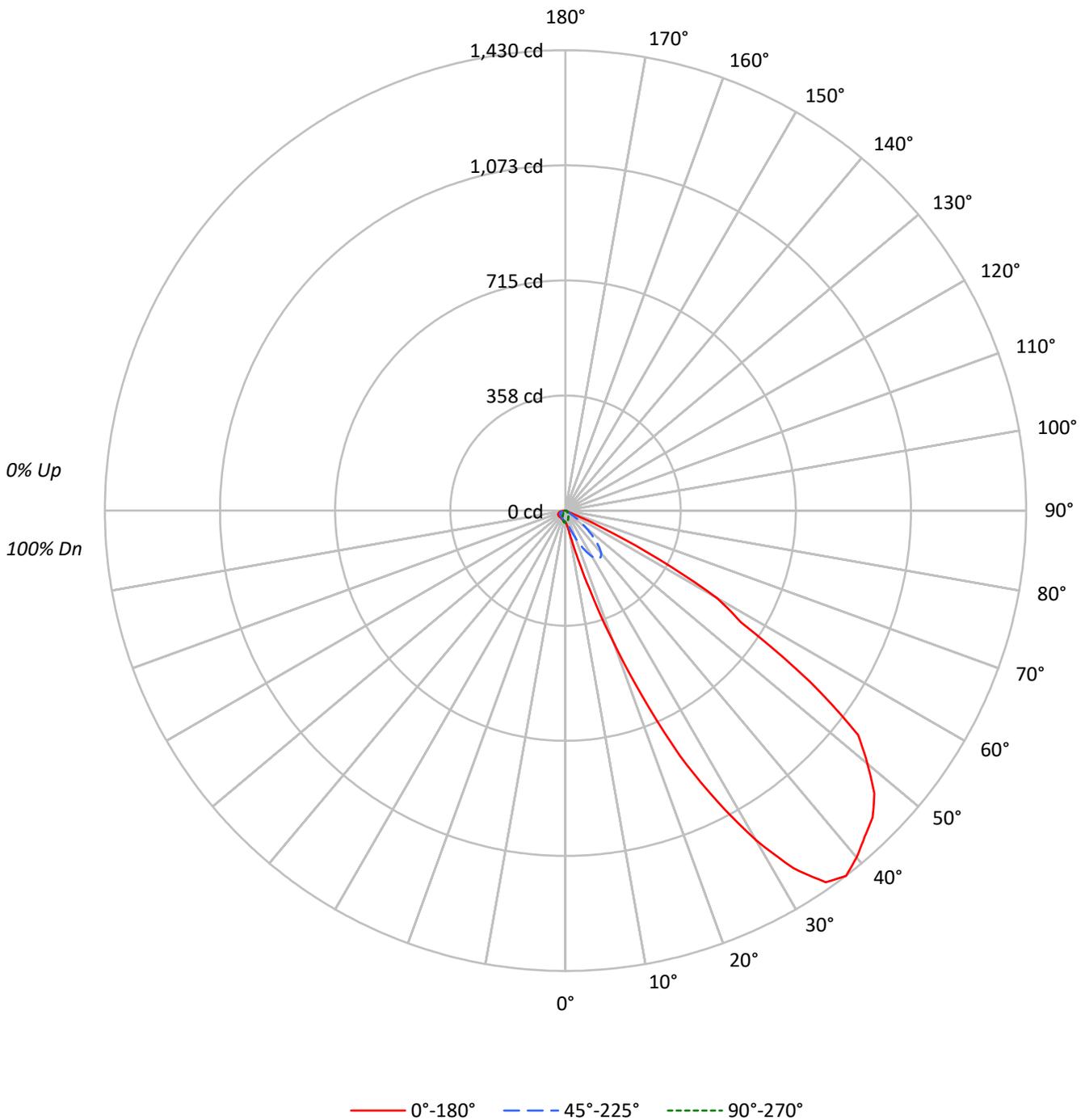
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 639.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
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	96	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	66	77	70	65	74	69	64	71	67	63	61													
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51													
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43													
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36													
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31													
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26													
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22													
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6372	6372	6372	6372	6372
5°	7572	7036	6293	5843	5843
10°	12102	8219	5911	5544	5544
15°	30132	11019	5367	5171	5367
20°	79358	16458	4637	4930	5223
25°	159318	24380	4010	4618	5112
30°	234880	32654	3261	4514	5250
35°	296277	38307	2775	4436	5445
40°	316098	38692	2496	4631	5823
45°	328440	32272	2314	5017	6308
50°	327921	22506	2251	5385	7073
55°	278702	9999	2372	6035	7777
60°	187309	1998	2377	6717	8921
65°	49717	856	2364	7335	10106
70°	1309	1057	2417	7956	11430
75°	1065	1065	2462	8451	12976
80°	1091	1587	2579	8926	14679
85°	988	2174	4150	9485	14623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 336905 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.6
10°-20°	18.0	2.8
20°-30°	74.3	11.6
30°-40°	156.7	24.5
40°-50°	193.3	30.2
50°-60°	144.9	22.7
60°-70°	37.3	5.8
70°-80°	7.7	1.2
80°-90°	3.1	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°	96.0	15.0
0°-40°	252.7	39.5
0°-60°	590.9	92.5
0°-90°	639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	44	41	36	34	34	5
15°	169	62	30	29	30	62
25°	838	128	21	24	27	391
35°	1409	182	13	21	26	859
45°	1348	132	10	21	26	1032
55°	928	33	8	20	26	801
65°	122	2	6	18	25	176
75°	2	2	4	13	20	2
85°	0	1	2	5	7	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
2.5°	39.1	39.1	39.1	39.1	39.1	39.1	39.1	38.5	38.0	37.0	35.9
5°	43.8	43.3	43.3	43.3	42.8	42.2	42.2	40.7	38.5	36.4	34.8
7.5°	51.7	51.7	51.2	50.2	49.6	48.6	47.5	43.3	38.5	35.4	33.3
10°	69.2	68.1	66.5	65.5	62.8	59.1	56.5	47.0	38.0	33.8	32.2
12.5°	103.5	105.6	100.3	95.0	87.6	80.8	72.3	53.3	38.0	32.2	30.6
15°	169.0	172.7	162.6	152.1	134.1	117.2	101.4	61.8	37.0	30.1	28.5
17.5°	276.1	280.9	264.0	239.2	211.2	177.4	148.4	73.4	35.9	28.0	26.9
20°	433.0	432.4	399.7	368.5	314.7	265.1	210.7	89.8	34.3	25.3	25.3
22.5°	625.7	627.8	587.7	531.7	455.1	375.4	288.8	108.8	32.2	23.2	23.8
25°	838.4	820.5	773.0	704.9	607.2	496.8	382.8	128.3	30.1	21.1	22.2
27.5°	1015.9	998.4	944.0	863.3	758.2	627.3	478.4	147.8	27.5	19.0	20.6
30°	1181.1	1158.9	1093.5	1002.1	877.0	735.5	568.1	164.2	24.3	16.4	19.0
32.5°	1317.3	1297.3	1222.8	1116.7	980.5	828.4	644.1	176.9	21.1	14.8	18.0
35°	1409.2	1388.6	1320.0	1203.3	1054.9	896.0	705.9	182.2	18.5	13.2	17.4
37.5°	1430.3	1419.2	1370.1	1260.8	1106.1	939.3	745.5	180.6	15.3	12.1	16.4
40°	1406.0	1408.7	1385.4	1294.6	1133.6	957.8	761.9	172.1	12.7	11.1	15.8
42.5°	1374.9	1381.8	1380.2	1308.4	1145.2	958.8	755.0	155.2	10.0	10.0	15.3
45°	1348.5	1355.4	1364.9	1302.6	1137.3	945.1	733.4	132.5	7.4	9.5	15.3
47.5°	1300.4	1307.8	1321.6	1256.1	1097.2	909.7	694.3	107.7	5.3	9.0	14.8
50°	1223.9	1227.6	1223.9	1150.5	1020.1	852.7	630.9	84.0	3.7	8.4	14.8
52.5°	1145.2	1137.8	1107.2	1014.3	897.6	762.4	551.2	59.7	2.6	7.9	14.3
55°	928.2	916.6	893.9	836.9	770.3	651.5	445.6	33.3	2.6	7.9	13.7
57.5°	646.8	653.1	661.0	649.4	618.8	513.2	338.4	14.8	2.6	7.4	13.7
60°	543.8	538.6	539.1	531.7	481.0	374.3	232.8	5.8	2.6	6.9	13.2
62.5°	324.7	328.4	335.3	336.9	286.7	209.1	122.0	2.6	2.6	6.3	12.7
65°	122.0	127.8	111.9	97.2	77.1	56.5	28.5	2.1	3.2	5.8	11.6
67.5°	3.7	4.2	5.3	4.8	4.8	4.2	3.2	2.1	3.2	5.3	11.1
70°	2.6	2.6	2.6	2.6	2.6	2.1	2.1	2.1	2.6	4.8	10.0
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	4.2	9.0
75°	1.6	2.1	1.6	1.6	1.6	1.6	1.6	1.6	2.6	3.7	7.4
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	3.2	6.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.1	2.6	5.3
82.5°	1.1	1.1	1.1	0.5	1.1	1.1	1.1	1.1	2.1	2.1	4.2
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6	2.1	2.6
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1	1.6	1.6	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):

	135°	157.5°	180°
0°	37.0	37.0	37.0
2.5°	34.8	34.8	34.8
5°	33.8	33.8	33.8
7.5°	32.7	32.7	32.7
10°	31.7	31.7	31.7
12.5°	30.6	30.6	31.2
15°	29.0	30.1	30.1
17.5°	28.0	29.0	29.6
20°	26.9	28.0	28.5
22.5°	25.3	26.9	28.0
25°	24.3	26.4	26.9
27.5°	23.2	25.9	26.9
30°	22.7	25.3	26.4
32.5°	21.6	24.8	25.9
35°	21.1	24.8	25.9
37.5°	21.1	24.3	25.9
40°	20.6	24.3	25.9
42.5°	20.6	24.3	25.9
45°	20.6	24.3	25.9
47.5°	20.1	24.3	26.4
50°	20.1	24.8	26.4
52.5°	20.1	24.8	26.4
55°	20.1	24.8	25.9
57.5°	19.5	24.3	25.9
60°	19.5	24.3	25.9
62.5°	18.5	23.8	25.3
65°	18.0	23.2	24.8
67.5°	16.9	22.7	23.8
70°	15.8	21.1	22.7
72.5°	14.3	20.1	21.6
75°	12.7	18.5	19.5
77.5°	11.1	16.4	17.4
80°	9.0	13.7	14.8
82.5°	6.9	10.6	11.1
85°	4.8	6.9	7.4
87.5°	2.1	3.2	3.7
90°	0.0	0.0	0.0

(END OF REPORT)