

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: P1326818

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA45R 1MMS_3500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326818
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_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3500K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

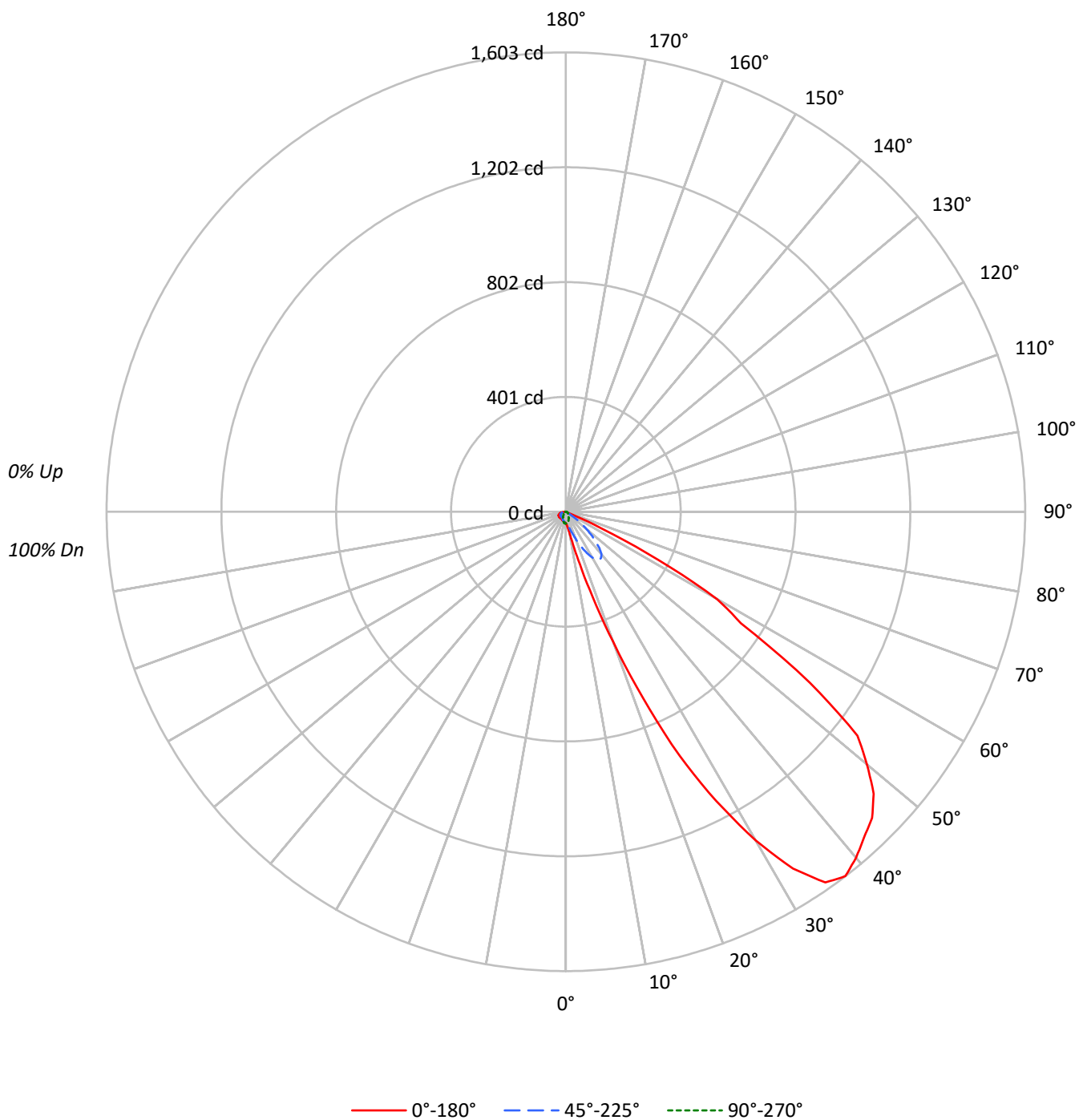
Lumens per Lamp: N/A
Luminaire Lumens: 716.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	7130	7130	7130	7130	7130
5°	8488	7883	7054	6552	6552
10°	13553	9216	6628	6208	6208
15°	33752	12338	6009	5795	6009
20°	88907	18438	5205	5535	5846
25°	178530	27326	4504	5169	5739
30°	263179	36591	3639	5051	5886
35°	331977	42911	3112	4983	6097
40°	354205	43368	2788	5193	6520
45°	368019	36169	2582	5626	7063
50°	367440	25212	2545	6028	7931
55°	312301	11200	2672	6756	8708
60°	209905	2239	2652	7543	9989
65°	55707	978	2649	8191	11329
70°	1511	1209	2669	8913	12790
75°	1198	1198	2728	9449	14573
80°	1190	1785	2975	10017	16464
85°	1186	2371	4742	10473	16401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 377488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.6
10°-20°	20.2	2.8
20°-30°	83.3	11.6
30°-40°	175.5	24.5
40°-50°	216.6	30.2
50°-60°	162.3	22.7
60°-70°	41.8	5.8
70°-80°	8.7	1.2
80°-90°	3.5	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°	107.6	15.0
0°-40°	283.2	39.5
0°-60°	662.1	92.5
0°-90°	716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	716.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	49	46	41	38	38	6
15°	189	69	34	32	34	69
25°	940	144	24	27	30	438
35°	1579	204	15	24	29	962
45°	1511	148	11	23	29	1156
55°	1040	37	9	22	29	898
65°	137	2	6	20	28	197
75°	2	2	4	14	22	2
85°	1	1	2	5	8	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°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
2.5°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.2	42.6	41.4	40.2
5°	49.1	48.5	48.5	48.5	47.9	47.3	47.3	45.6	43.2	40.8	39.0
7.5°	58.0	58.0	57.4	56.2	55.6	54.4	53.2	48.5	43.2	39.6	37.3
10°	77.5	76.3	74.5	73.4	70.4	66.3	63.3	52.7	42.6	37.9	36.1
12.5°	116.0	118.3	112.4	106.5	98.2	90.5	81.1	59.8	42.6	36.1	34.3
15°	189.3	193.5	182.2	170.4	150.3	131.3	113.6	69.2	41.4	33.7	31.9
17.5°	309.4	314.7	295.8	268.0	236.6	198.8	166.2	82.2	40.2	31.4	30.2
20°	485.1	484.5	447.9	412.9	352.6	297.0	236.1	100.6	38.5	28.4	28.4
22.5°	701.1	703.4	658.5	595.8	510.0	420.6	323.6	121.9	36.1	26.0	26.6
25°	939.5	919.4	866.1	789.8	680.4	556.7	428.9	143.8	33.7	23.7	24.8
27.5°	1138.3	1118.7	1057.8	967.3	849.6	702.8	536.0	165.7	30.8	21.3	23.1
30°	1323.4	1298.6	1225.2	1122.9	982.7	824.1	636.6	184.0	27.2	18.3	21.3
32.5°	1476.1	1453.6	1370.2	1251.3	1098.6	928.2	721.8	198.2	23.7	16.6	20.1
35°	1579.0	1555.9	1479.0	1348.3	1182.0	1004.0	791.0	204.1	20.7	14.8	19.5
37.5°	1602.7	1590.3	1535.2	1412.8	1239.4	1052.5	835.4	202.3	17.2	13.6	18.3
40°	1575.5	1578.4	1552.4	1450.6	1270.2	1073.2	853.7	192.9	14.2	12.4	17.7
42.5°	1540.6	1548.3	1546.5	1466.0	1283.2	1074.4	846.0	173.9	11.2	11.2	17.2
45°	1511.0	1518.7	1529.3	1459.5	1274.3	1059.0	821.8	148.5	8.3	10.6	17.2
47.5°	1457.1	1465.4	1480.8	1407.4	1229.4	1019.3	778.0	120.7	5.9	10.1	16.6
50°	1371.4	1375.5	1371.4	1289.1	1143.0	955.5	707.0	94.1	4.1	9.5	16.6
52.5°	1283.2	1274.9	1240.6	1136.5	1005.7	854.3	617.6	66.9	3.0	8.9	16.0
55°	1040.1	1027.0	1001.6	937.7	863.2	730.1	499.3	37.3	3.0	8.9	15.4
57.5°	724.7	731.8	740.7	727.7	693.4	575.0	379.2	16.6	3.0	8.3	15.4
60°	609.4	603.4	604.0	595.8	539.0	419.5	260.9	6.5	3.0	7.7	14.8
62.5°	363.8	368.0	375.7	377.4	321.2	234.3	136.7	3.0	3.0	7.1	14.2
65°	136.7	143.2	125.4	108.9	86.4	63.3	31.9	2.4	3.5	6.5	13.0
67.5°	4.1	4.7	5.9	5.3	5.3	4.7	3.5	2.4	3.5	5.9	12.4
70°	3.0	3.0	3.0	3.0	3.0	2.4	2.4	2.4	3.0	5.3	11.2
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.0	4.7	10.1
75°	1.8	2.4	1.8	1.8	1.8	1.8	1.8	1.8	3.0	4.1	8.3
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	3.5	7.1
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.0	5.9
82.5°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	2.4	2.4	4.7
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	3.0
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2	1.8	1.8	1.8
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°	41.4	41.4	41.4
2.5°	39.0	39.0	39.0
5°	37.9	37.9	37.9
7.5°	36.7	36.7	36.7
10°	35.5	35.5	35.5
12.5°	34.3	34.3	34.9
15°	32.5	33.7	33.7
17.5°	31.4	32.5	33.1
20°	30.2	31.4	31.9
22.5°	28.4	30.2	31.4
25°	27.2	29.6	30.2
27.5°	26.0	29.0	30.2
30°	25.4	28.4	29.6
32.5°	24.3	27.8	29.0
35°	23.7	27.8	29.0
37.5°	23.7	27.2	29.0
40°	23.1	27.2	29.0
42.5°	23.1	27.2	29.0
45°	23.1	27.2	29.0
47.5°	22.5	27.2	29.6
50°	22.5	27.8	29.6
52.5°	22.5	27.8	29.6
55°	22.5	27.8	29.0
57.5°	21.9	27.2	29.0
60°	21.9	27.2	29.0
62.5°	20.7	26.6	28.4
65°	20.1	26.0	27.8
67.5°	18.9	25.4	26.6
70°	17.7	23.7	25.4
72.5°	16.0	22.5	24.3
75°	14.2	20.7	21.9
77.5°	12.4	18.3	19.5
80°	10.1	15.4	16.6
82.5°	7.7	11.8	12.4
85°	5.3	7.7	8.3
87.5°	2.4	3.5	4.1
90°	0.0	0.0	0.0

(END OF REPORT)