

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: P1326820

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326820
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_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

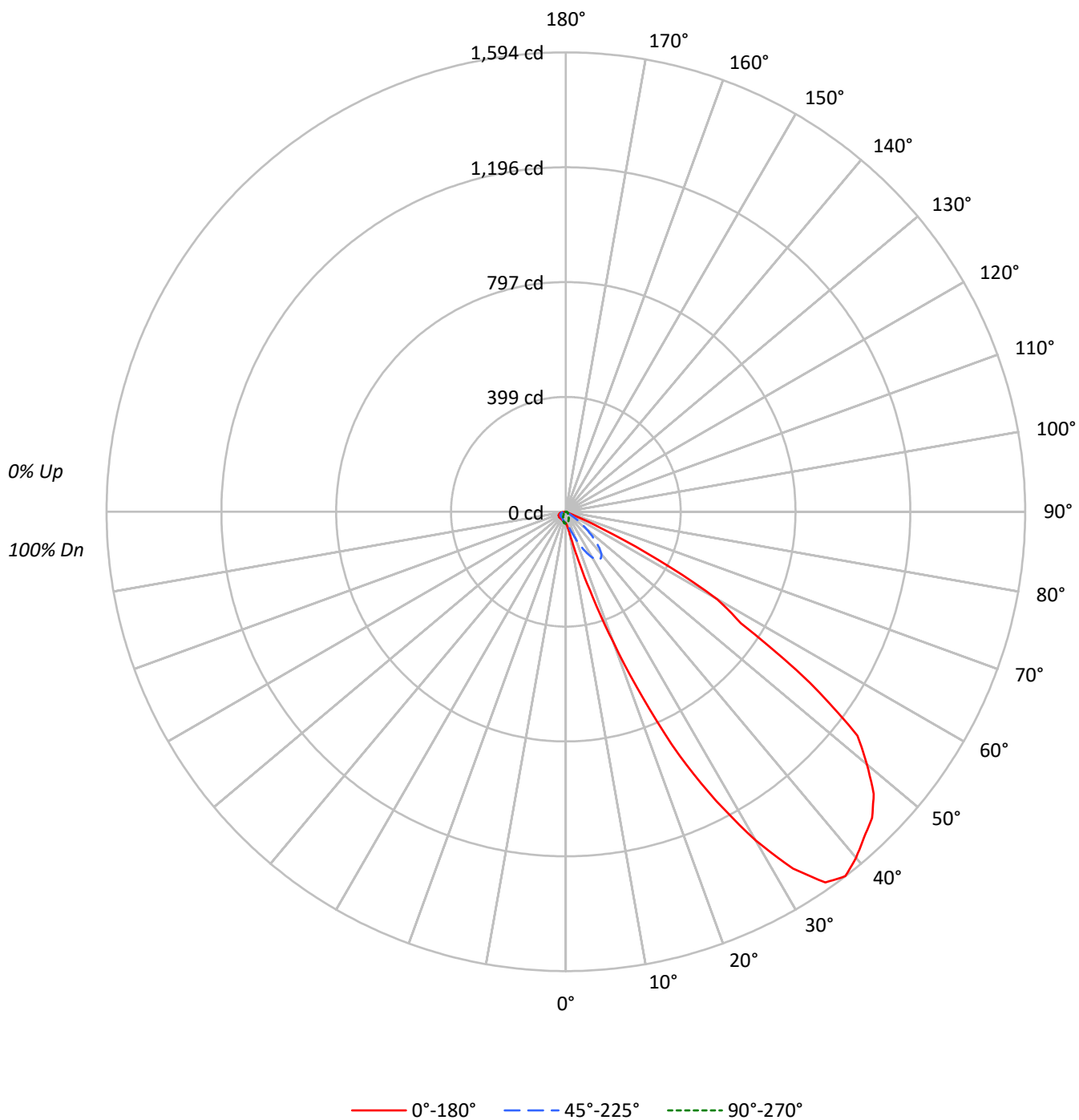
Lumens per Lamp: N/A
Luminaire Lumens: 712.0 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7096	7096	7096	7096	7096
5°	8437	7831	7019	6518	6518
10°	13483	9164	6593	6173	6173
15°	33574	12267	5973	5777	5973
20°	88412	18328	5168	5498	5828
25°	177523	27174	4466	5150	5701
30°	261707	36392	3619	5031	5847
35°	330127	42680	3091	4941	6055
40°	352227	43121	2788	5148	6475
45°	365948	35974	2582	5578	7015
50°	365377	25052	2519	6002	7877
55°	310530	11140	2642	6726	8648
60°	208734	2239	2618	7509	9920
65°	55381	978	2649	8150	11288
70°	1460	1209	2669	8862	12740
75°	1198	1198	2728	9382	14506
80°	1190	1785	2876	9918	16365
85°	1186	2371	4742	10473	16203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 375372 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.6
10°-20°	20.1	2.8
20°-30°	82.8	11.6
30°-40°	174.6	24.5
40°-50°	215.4	30.2
50°-60°	161.4	22.7
60°-70°	41.5	5.8
70°-80°	8.6	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°	107.0	15.0
0°-40°	281.6	39.5
0°-60°	658.4	92.5
0°-90°	712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	712.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	49	45	41	38	38	5
15°	188	69	34	32	34	69
25°	934	143	24	27	30	435
35°	1570	203	15	24	29	957
45°	1502	148	11	23	29	1150
55°	1034	37	9	22	29	893
65°	136	2	6	20	28	196
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°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2
2.5°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	42.9	42.4	41.2	40.0
5°	48.8	48.2	48.2	48.2	47.7	47.1	47.1	45.3	42.9	40.6	38.8
7.5°	57.7	57.7	57.1	55.9	55.3	54.1	52.9	48.2	42.9	39.4	37.1
10°	77.1	75.9	74.1	73.0	70.0	65.9	62.9	52.4	42.4	37.7	35.9
12.5°	115.3	117.7	111.8	105.9	97.7	90.0	80.6	59.4	42.4	35.9	34.1
15°	188.3	192.4	181.2	169.4	149.4	130.6	113.0	68.8	41.2	33.5	31.8
17.5°	307.7	313.0	294.2	266.5	235.3	197.7	165.3	81.8	40.0	31.2	30.0
20°	482.4	481.8	445.3	410.6	350.6	295.3	234.7	100.0	38.2	28.2	28.2
22.5°	697.1	699.5	654.8	592.4	507.1	418.3	321.8	121.2	35.9	25.9	26.5
25°	934.2	914.2	861.3	785.4	676.6	553.6	426.5	143.0	33.5	23.5	24.7
27.5°	1131.9	1112.5	1051.9	961.9	844.8	698.9	533.0	164.7	30.6	21.2	22.9
30°	1316.0	1291.3	1218.4	1116.6	977.2	819.5	633.0	183.0	27.1	18.2	21.2
32.5°	1467.8	1445.5	1362.5	1244.3	1092.5	923.1	717.7	197.1	23.5	16.5	20.0
35°	1570.2	1547.3	1470.8	1340.8	1175.4	998.4	786.6	203.0	20.6	14.7	19.4
37.5°	1593.7	1581.4	1526.7	1404.9	1232.5	1046.6	830.7	201.2	17.1	13.5	18.2
40°	1566.7	1569.6	1543.7	1442.5	1263.1	1067.2	848.9	191.8	14.1	12.4	17.6
42.5°	1532.0	1539.6	1537.8	1457.8	1276.0	1068.4	841.3	173.0	11.2	11.2	17.1
45°	1502.5	1510.2	1520.8	1451.4	1267.2	1053.1	817.2	147.7	8.2	10.6	17.1
47.5°	1449.0	1457.2	1472.5	1399.6	1222.5	1013.7	773.6	120.0	5.9	10.0	16.5
50°	1363.7	1367.8	1363.7	1281.9	1136.6	950.1	703.0	93.5	4.1	9.4	16.5
52.5°	1276.0	1267.8	1233.7	1130.1	1000.1	849.5	614.2	66.5	2.9	8.8	15.9
55°	1034.2	1021.3	996.0	932.5	858.3	726.0	496.5	37.1	2.9	8.8	15.3
57.5°	720.7	727.7	736.6	723.6	689.5	571.8	377.1	16.5	2.9	8.2	15.3
60°	606.0	600.1	600.7	592.4	535.9	417.1	259.4	6.5	2.9	7.6	14.7
62.5°	361.8	365.9	373.6	375.3	319.5	233.0	135.9	2.9	2.9	7.1	14.1
65°	135.9	142.4	124.7	108.2	85.9	62.9	31.8	2.4	3.5	6.5	12.9
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°	2.9	2.9	2.9	2.9	2.9	2.4	2.4	2.4	2.9	5.3	11.2
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	4.7	10.0
75°	1.8	2.4	1.8	1.8	1.8	1.8	1.8	1.8	2.9	4.1	8.2
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	2.9	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	2.9
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°	41.2	41.2	41.2
2.5°	38.8	38.8	38.8
5°	37.7	37.7	37.7
7.5°	36.5	36.5	36.5
10°	35.3	35.3	35.3
12.5°	34.1	34.1	34.7
15°	32.4	33.5	33.5
17.5°	31.2	32.4	32.9
20°	30.0	31.2	31.8
22.5°	28.2	30.0	31.2
25°	27.1	29.4	30.0
27.5°	25.9	28.8	30.0
30°	25.3	28.2	29.4
32.5°	24.1	27.7	28.8
35°	23.5	27.7	28.8
37.5°	23.5	27.1	28.8
40°	22.9	27.1	28.8
42.5°	22.9	27.1	28.8
45°	22.9	27.1	28.8
47.5°	22.4	27.1	29.4
50°	22.4	27.7	29.4
52.5°	22.4	27.7	29.4
55°	22.4	27.7	28.8
57.5°	21.8	27.1	28.8
60°	21.8	27.1	28.8
62.5°	20.6	26.5	28.2
65°	20.0	25.9	27.7
67.5°	18.8	25.3	26.5
70°	17.6	23.5	25.3
72.5°	15.9	22.4	24.1
75°	14.1	20.6	21.8
77.5°	12.4	18.2	19.4
80°	10.0	15.3	16.5
82.5°	7.6	11.8	12.4
85°	5.3	7.6	8.2
87.5°	2.4	3.5	4.1
90°	0.0	0.0	0.0

(END OF REPORT)