

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: P1325162

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325162
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: LDSQA3D05R45W2N902750DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

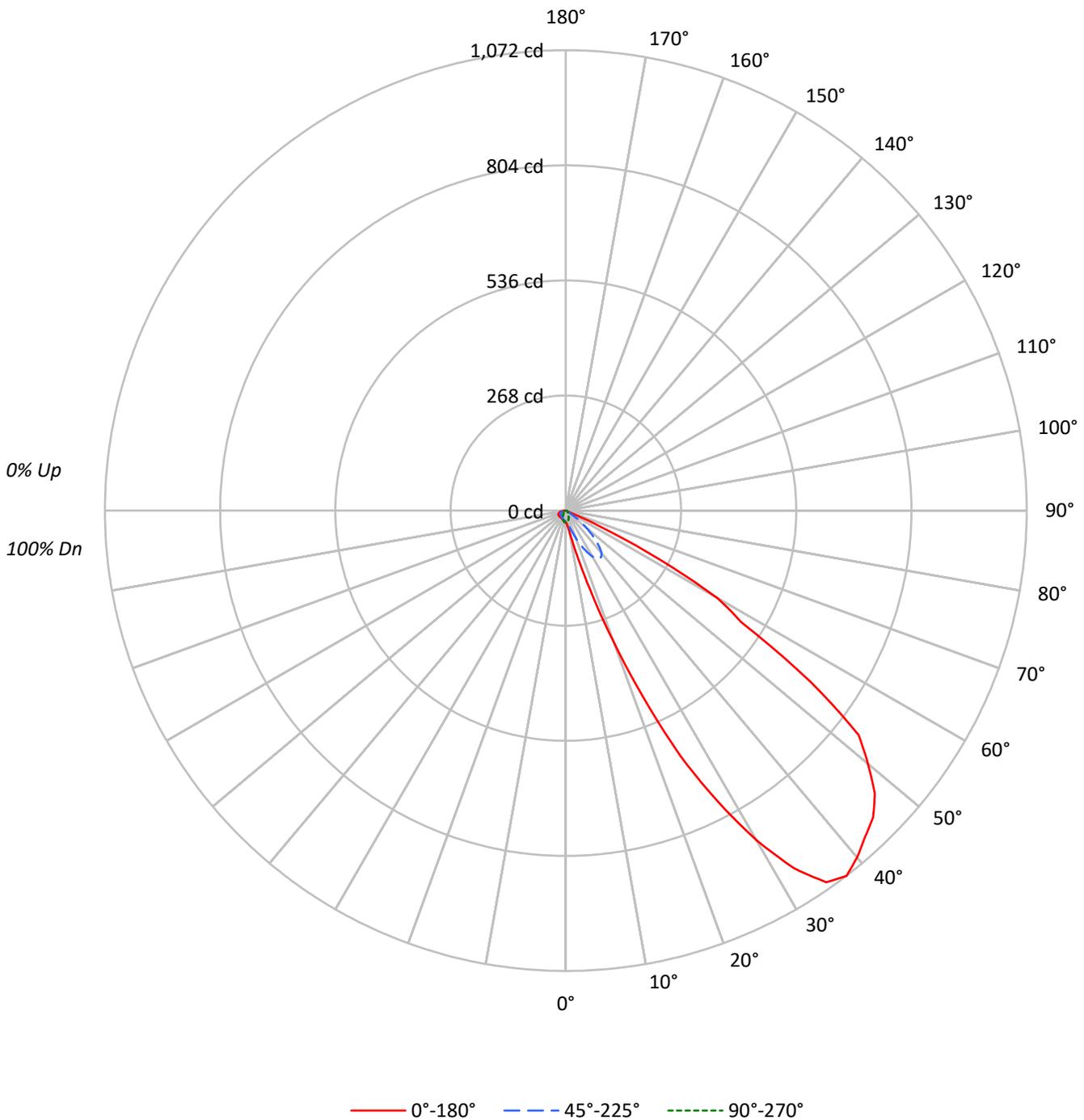
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 479.0 lumens
Efficiency: N/A
Efficacy: 81.2 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): 5.9
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	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	38	38	38	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	33	33	33	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	28	28	28	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	24	24	24	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	21	21	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4771	4771	4771	4771	4771
5°	5688	5273	4720	4374	4374
10°	9059	6156	4424	4145	4145
15°	22590	8255	4030	3887	4030
20°	59473	12334	3482	3702	3922
25°	119432	18281	3002	3458	3839
30°	176076	24480	2446	3381	3938
35°	222103	28698	2081	3322	4079
40°	236961	29002	1866	3462	4362
45°	246190	24185	1729	3751	4725
50°	245800	16853	1688	4019	5305
55°	208922	7476	1772	4504	5825
60°	140430	1516	1757	5029	6682
65°	37247	652	1793	5501	7580
70°	1007	806	1813	5992	8560
75°	799	799	1863	6321	9715
80°	793	1190	1984	6645	11009
85°	790	1581	3162	7114	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 252551 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.6
10°-20°	13.5	2.8
20°-30°	55.7	11.6
30°-40°	117.4	24.5
40°-50°	144.9	30.2
50°-60°	108.6	22.7
60°-70°	28.0	5.8
70°-80°	5.8	1.2
80°-90°	2.4	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°	72.0	15.0
0°-40°	189.4	39.5
0°-60°	442.9	92.5
0°-90°	479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	479.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	33	30	27	25	25	4
15°	127	46	23	22	23	46
25°	628	96	16	18	20	293
35°	1056	136	10	16	19	644
45°	1011	99	7	15	19	773
55°	696	25	6	15	19	601
65°	91	2	4	14	19	132
75°	1	1	3	10	15	1
85°	0	1	2	4	6	0
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°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	28.9	28.5	27.7	26.9
5°	32.9	32.5	32.5	32.5	32.1	31.7	31.7	30.5	28.9	27.3	26.1
7.5°	38.8	38.8	38.4	37.6	37.2	36.4	35.6	32.5	28.9	26.5	24.9
10°	51.8	51.1	49.9	49.1	47.1	44.3	42.3	35.2	28.5	25.3	24.1
12.5°	77.6	79.2	75.2	71.2	65.7	60.6	54.2	40.0	28.5	24.1	23.0
15°	126.7	129.4	121.9	114.0	100.5	87.9	76.0	46.3	27.7	22.6	21.4
17.5°	207.0	210.6	197.9	179.3	158.3	133.0	111.2	55.0	26.9	21.0	20.2
20°	324.5	324.1	299.6	276.3	235.9	198.7	157.9	67.3	25.7	19.0	19.0
22.5°	469.0	470.6	440.5	398.6	341.2	281.4	216.5	81.5	24.1	17.4	17.8
25°	628.5	615.1	579.4	528.4	455.2	372.4	286.9	96.2	22.6	15.8	16.6
27.5°	761.5	748.4	707.7	647.1	568.3	470.2	358.6	110.8	20.6	14.2	15.4
30°	885.4	868.8	819.7	751.2	657.4	551.3	425.9	123.1	18.2	12.3	14.2
32.5°	987.5	972.4	916.6	837.1	735.0	621.0	482.9	132.6	15.8	11.1	13.5
35°	1056.4	1040.9	989.5	902.0	790.8	671.6	529.2	136.5	13.9	9.9	13.1
37.5°	1072.2	1063.9	1027.1	945.1	829.2	704.1	558.8	135.4	11.5	9.1	12.3
40°	1054.0	1056.0	1038.5	970.5	849.8	718.0	571.1	129.0	9.5	8.3	11.9
42.5°	1030.6	1035.8	1034.6	980.8	858.5	718.7	566.0	116.4	7.5	7.5	11.5
45°	1010.8	1016.0	1023.1	976.4	852.5	708.5	549.7	99.3	5.5	7.1	11.5
47.5°	974.8	980.4	990.7	941.6	822.4	681.9	520.5	80.7	4.0	6.7	11.1
50°	917.4	920.2	917.4	862.4	764.7	639.2	473.0	62.9	2.8	6.3	11.1
52.5°	858.5	852.9	830.0	760.3	672.8	571.5	413.2	44.7	2.0	5.9	10.7
55°	695.8	687.1	670.1	627.3	577.5	488.4	334.0	24.9	2.0	5.9	10.3
57.5°	484.8	489.6	495.5	486.8	463.9	384.7	253.7	11.1	2.0	5.5	10.3
60°	407.7	403.7	404.1	398.6	360.6	280.6	174.5	4.4	2.0	5.1	9.9
62.5°	243.4	246.2	251.3	252.5	214.9	156.7	91.4	2.0	2.0	4.7	9.5
65°	91.4	95.8	83.9	72.8	57.8	42.3	21.4	1.6	2.4	4.4	8.7
67.5°	2.8	3.2	4.0	3.6	3.6	3.2	2.4	1.6	2.4	4.0	8.3
70°	2.0	2.0	2.0	2.0	2.0	1.6	1.6	1.6	2.0	3.6	7.5
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	3.2	6.7
75°	1.2	1.6	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.8	5.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.4	4.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6	2.0	4.0
82.5°	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8	1.6	1.6	3.2
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	2.0
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	1.2	1.2
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°	27.7	27.7	27.7
2.5°	26.1	26.1	26.1
5°	25.3	25.3	25.3
7.5°	24.5	24.5	24.5
10°	23.7	23.7	23.7
12.5°	23.0	23.0	23.4
15°	21.8	22.6	22.6
17.5°	21.0	21.8	22.2
20°	20.2	21.0	21.4
22.5°	19.0	20.2	21.0
25°	18.2	19.8	20.2
27.5°	17.4	19.4	20.2
30°	17.0	19.0	19.8
32.5°	16.2	18.6	19.4
35°	15.8	18.6	19.4
37.5°	15.8	18.2	19.4
40°	15.4	18.2	19.4
42.5°	15.4	18.2	19.4
45°	15.4	18.2	19.4
47.5°	15.0	18.2	19.8
50°	15.0	18.6	19.8
52.5°	15.0	18.6	19.8
55°	15.0	18.6	19.4
57.5°	14.6	18.2	19.4
60°	14.6	18.2	19.4
62.5°	13.9	17.8	19.0
65°	13.5	17.4	18.6
67.5°	12.7	17.0	17.8
70°	11.9	15.8	17.0
72.5°	10.7	15.0	16.2
75°	9.5	13.9	14.6
77.5°	8.3	12.3	13.1
80°	6.7	10.3	11.1
82.5°	5.1	7.9	8.3
85°	3.6	5.1	5.5
87.5°	1.6	2.4	2.8
90°	0.0	0.0	0.0

(END OF REPORT)