

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: P1325161

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325161
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_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

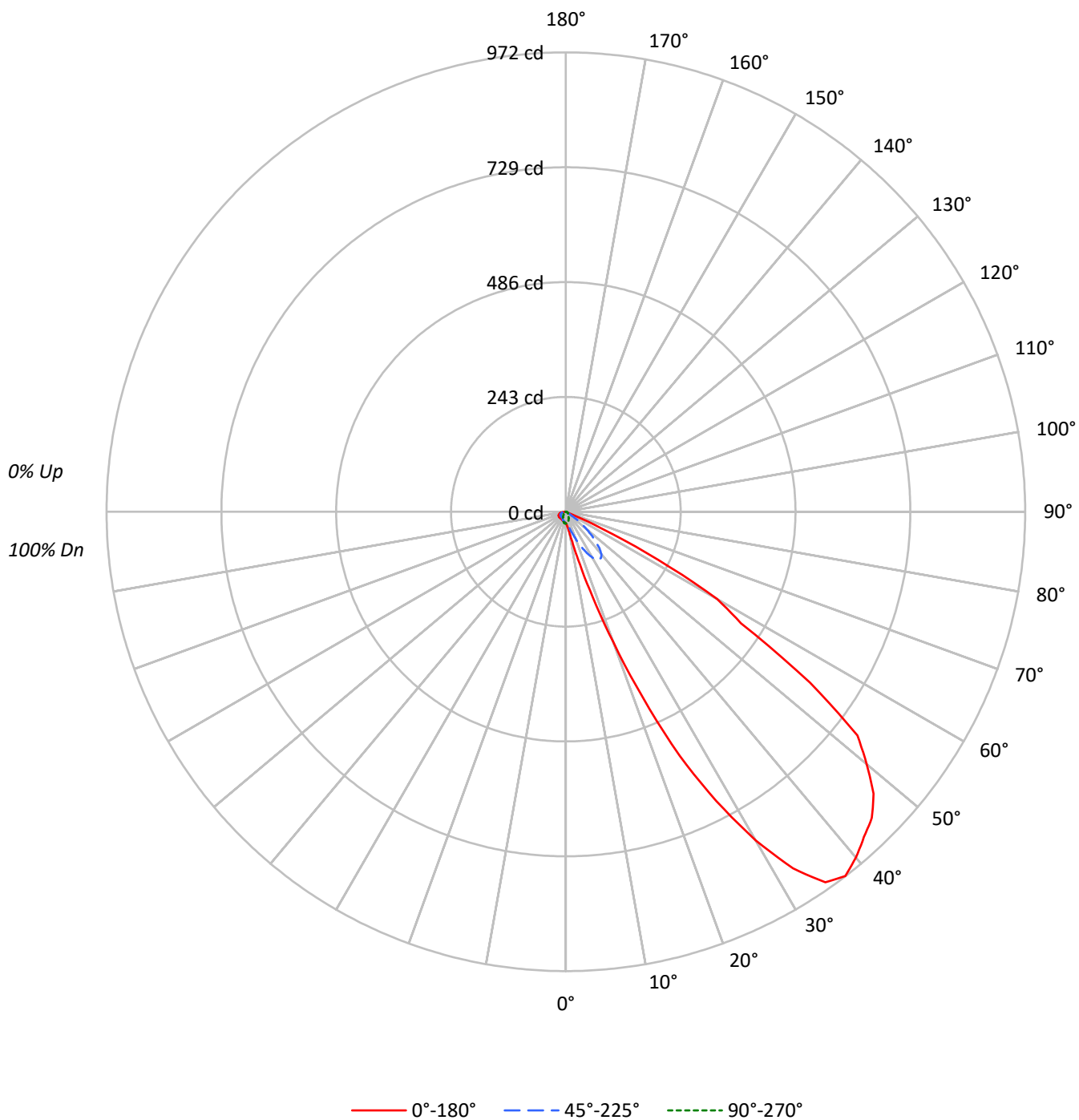
Lumens per Lamp: N/A
Luminaire Lumens: 434.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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				0
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°	4323	4323	4323	4323	4323
5°	5152	4772	4270	3976	3976
10°	8219	5579	4022	3760	3760
15°	20469	7489	3637	3512	3637
20°	53901	11180	3152	3354	3556
25°	108220	16551	2717	3135	3477
30°	159530	22174	2207	3063	3560
35°	201226	26007	1892	3007	3700
40°	214704	26282	1686	3147	3957
45°	223076	21920	1583	3410	4287
50°	222704	15272	1527	3644	4796
55°	189285	6786	1621	4084	5285
60°	127238	1343	1619	4581	6062
65°	33742	571	1589	4972	6887
70°	906	705	1611	5438	7755
75°	732	732	1664	5723	8850
80°	694	1091	1785	6050	9918
85°	790	1383	2766	6323	9880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 228818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.6
10°-20°	12.2	2.8
20°-30°	50.5	11.6
30°-40°	106.4	24.5
40°-50°	131.3	30.2
50°-60°	98.4	22.7
60°-70°	25.3	5.8
70°-80°	5.2	1.2
80°-90°	2.1	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°	65.2	15.0
0°-40°	171.6	39.5
0°-60°	401.3	92.5
0°-90°	434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	434.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	30	28	25	23	23	3
15°	115	42	20	20	20	42
25°	570	87	14	16	18	265
35°	957	124	9	14	18	583
45°	916	90	6	14	18	701
55°	630	23	5	14	18	544
65°	83	1	4	12	17	119
75°	1	1	2	9	13	1
85°	0	1	1	3	5	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°	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
2.5°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.2	25.8	25.1	24.4
5°	29.8	29.4	29.4	29.4	29.0	28.7	28.7	27.6	26.2	24.7	23.7
7.5°	35.1	35.1	34.8	34.1	33.7	33.0	32.3	29.4	26.2	24.0	22.6
10°	47.0	46.3	45.2	44.5	42.7	40.2	38.4	31.9	25.8	23.0	21.9
12.5°	70.3	71.7	68.1	64.5	59.5	54.9	49.1	36.2	25.8	21.9	20.8
15°	114.8	117.3	110.4	103.3	91.1	79.6	68.9	42.0	25.1	20.4	19.4
17.5°	187.5	190.8	179.3	162.4	143.4	120.5	100.8	49.8	24.4	19.0	18.3
20°	294.1	293.7	271.5	250.3	213.7	180.0	143.1	61.0	23.3	17.2	17.2
22.5°	424.9	426.4	399.1	361.1	309.1	255.0	196.2	73.9	21.9	15.8	16.1
25°	569.5	557.3	525.0	478.7	412.4	337.4	260.0	87.1	20.4	14.3	15.1
27.5°	690.0	678.1	641.2	586.3	515.0	426.0	324.9	100.4	18.6	12.9	14.0
30°	802.2	787.1	742.7	680.6	595.6	499.5	385.9	111.5	16.5	11.1	12.9
32.5°	894.7	881.1	830.5	758.4	665.9	562.6	437.5	120.1	14.3	10.0	12.2
35°	957.1	943.1	896.5	817.3	716.5	608.6	479.5	123.7	12.6	9.0	11.8
37.5°	971.5	963.9	930.6	856.3	751.3	638.0	506.3	122.6	10.4	8.2	11.1
40°	955.0	956.8	941.0	879.3	769.9	650.5	517.5	116.9	8.6	7.5	10.8
42.5°	933.8	938.5	937.4	888.6	777.8	651.2	512.8	105.4	6.8	6.8	10.4
45°	915.9	920.5	927.0	884.7	772.4	641.9	498.1	90.0	5.0	6.5	10.4
47.5°	883.2	888.3	897.6	853.1	745.2	617.9	471.6	73.2	3.6	6.1	10.0
50°	831.2	833.8	831.2	781.4	692.8	579.1	428.5	57.0	2.5	5.7	10.0
52.5°	777.8	772.8	752.0	688.9	609.6	517.8	374.4	40.5	1.8	5.4	9.7
55°	630.4	622.5	607.1	568.4	523.2	442.5	302.7	22.6	1.8	5.4	9.3
57.5°	439.3	443.6	449.0	441.1	420.3	348.6	229.9	10.0	1.8	5.0	9.3
60°	369.4	365.8	366.1	361.1	326.7	254.3	158.1	3.9	1.8	4.7	9.0
62.5°	220.5	223.1	227.7	228.8	194.7	142.0	82.8	1.8	1.8	4.3	8.6
65°	82.8	86.8	76.0	66.0	52.4	38.4	19.4	1.4	2.2	3.9	7.9
67.5°	2.5	2.9	3.6	3.2	3.2	2.9	2.2	1.4	2.2	3.6	7.5
70°	1.8	1.8	1.8	1.8	1.8	1.4	1.4	1.4	1.8	3.2	6.8
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.9	6.1
75°	1.1	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.8	2.5	5.0
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	2.2	4.3
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.4	1.8	3.6
82.5°	0.7	0.7	0.7	0.4	0.7	0.7	0.7	0.7	1.4	1.4	2.9
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	1.1	1.4	1.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.7	1.1	1.1	1.1
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°	25.1	25.1	25.1
2.5°	23.7	23.7	23.7
5°	23.0	23.0	23.0
7.5°	22.2	22.2	22.2
10°	21.5	21.5	21.5
12.5°	20.8	20.8	21.2
15°	19.7	20.4	20.4
17.5°	19.0	19.7	20.1
20°	18.3	19.0	19.4
22.5°	17.2	18.3	19.0
25°	16.5	17.9	18.3
27.5°	15.8	17.6	18.3
30°	15.4	17.2	17.9
32.5°	14.7	16.9	17.6
35°	14.3	16.9	17.6
37.5°	14.3	16.5	17.6
40°	14.0	16.5	17.6
42.5°	14.0	16.5	17.6
45°	14.0	16.5	17.6
47.5°	13.6	16.5	17.9
50°	13.6	16.9	17.9
52.5°	13.6	16.9	17.9
55°	13.6	16.9	17.6
57.5°	13.3	16.5	17.6
60°	13.3	16.5	17.6
62.5°	12.6	16.1	17.2
65°	12.2	15.8	16.9
67.5°	11.5	15.4	16.1
70°	10.8	14.3	15.4
72.5°	9.7	13.6	14.7
75°	8.6	12.6	13.3
77.5°	7.5	11.1	11.8
80°	6.1	9.3	10.0
82.5°	4.7	7.2	7.5
85°	3.2	4.7	5.0
87.5°	1.4	2.2	2.5
90°	0.0	0.0	0.0

(END OF REPORT)