

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: P1327290

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902765DE010 3LSQCA45R 1MMS_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

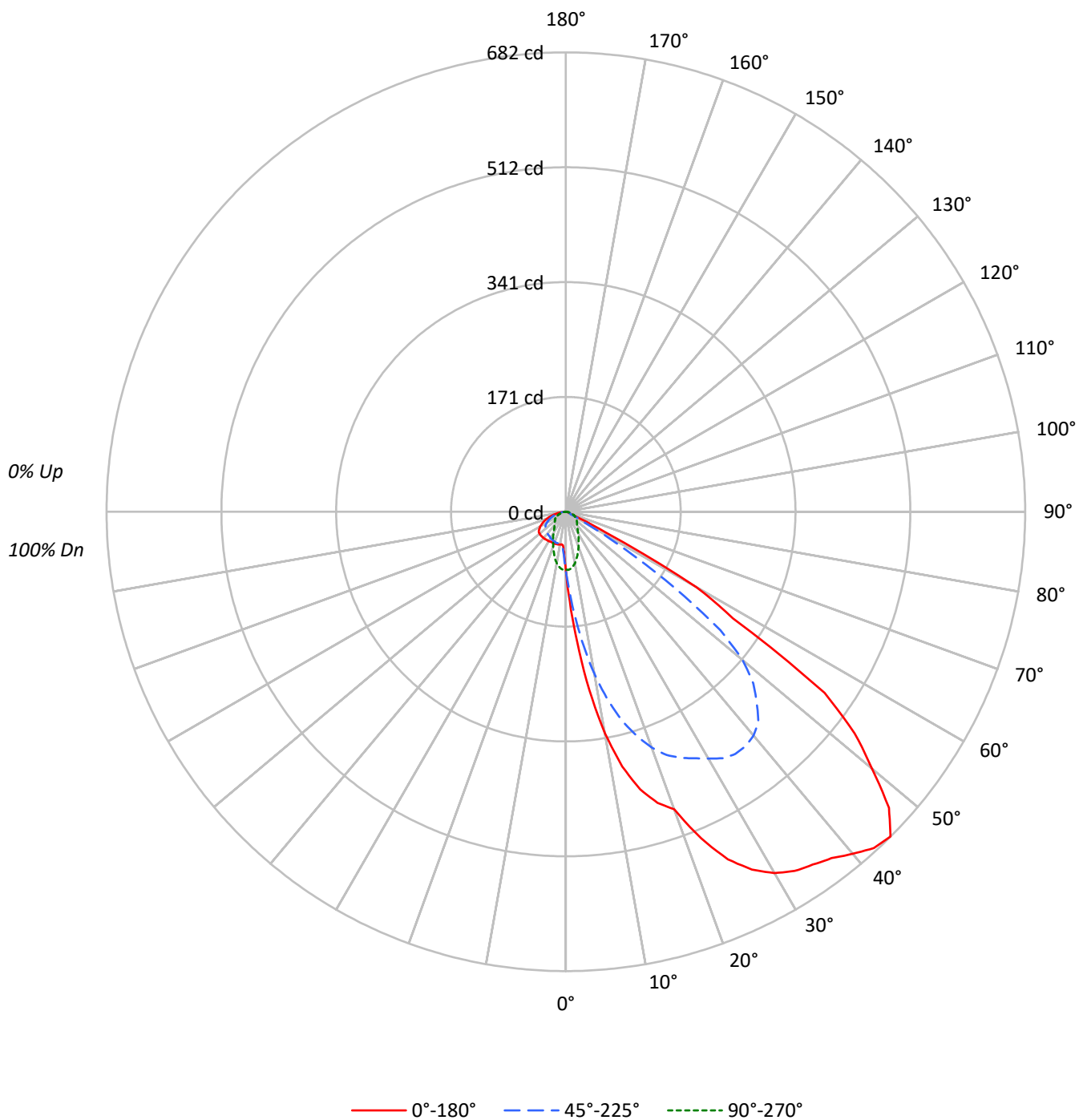
Lumens per Lamp: N/A
Luminaire Lumens: 589.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14777	14777	14777	14777	14777
5°	33625	26917	14626	9249	8627
10°	58270	42758	13571	8429	8639
15°	76062	57109	11839	8594	8897
20°	86158	68288	10117	8724	9255
25°	108201	76600	8494	8817	9482
30°	123177	84140	7239	8989	10043
35°	134431	92298	6307	9146	10617
40°	149034	97505	5823	9510	11488
45°	166035	97619	5724	10010	12446
50°	159017	91793	5680	10556	13531
55°	140792	59452	5825	11110	14653
60°	77121	12744	5856	11332	15190
65°	5501	3097	5746	11247	15323
70°	2669	2971	5338	10675	14804
75°	2329	3127	5057	10181	13708
80°	2380	2876	4661	9323	12794
85°	2371	3557	4742	8102	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 166035 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.2	1.9
10°-20°	47.9	8.1
20°-30°	91.8	15.6
30°-40°	129.9	22.0
40°-50°	146.9	24.9
50°-60°	116.3	19.8
60°-70°	31.4	5.3
70°-80°	10.4	1.8
80°-90°	3.2	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°	150.9	25.6
0°-40°	280.8	47.7
0°-60°	544.0	92.4
0°-90°	589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	194	156	85	54	50	23
15°	427	320	66	48	50	120
25°	569	403	45	46	50	261
35°	639	439	30	44	50	403
45°	682	401	24	41	51	510
55°	469	198	19	37	49	381
65°	14	8	14	28	38	49
75°	4	5	8	15	21	4
85°	1	2	2	4	6	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°	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2.5°	133.4	133.4	132.8	130.5	129.3	126.3	124.0	117.5	101.7	86.4	74.0
5°	194.5	197.4	193.3	192.7	189.2	183.9	180.4	155.7	117.5	84.6	63.5
7.5°	266.8	268.0	266.8	260.9	255.6	246.8	238.6	199.8	133.4	81.7	55.8
10°	333.2	331.4	327.9	323.8	316.2	306.8	292.6	244.5	148.7	77.6	51.1
12.5°	387.3	386.7	382.6	378.4	369.0	356.7	342.6	285.0	161.6	72.3	48.8
15°	426.6	426.6	422.5	417.8	409.0	399.0	383.1	320.3	172.2	66.4	46.4
17.5°	453.1	451.9	449.0	445.4	438.4	428.4	416.1	348.5	179.2	60.5	45.8
20°	470.1	469.5	467.2	461.9	456.0	448.4	437.2	372.6	182.2	55.2	45.2
22.5°	524.8	520.1	511.3	500.1	486.0	467.8	452.5	390.8	181.0	49.4	44.1
25°	569.4	567.7	558.3	544.7	525.9	502.4	477.2	403.1	175.1	44.7	42.9
27.5°	598.8	595.9	587.1	572.4	552.4	529.5	506.0	412.5	166.9	40.5	41.1
30°	619.4	617.6	608.8	592.3	571.8	546.5	522.4	423.1	155.7	36.4	39.4
32.5°	632.3	630.5	621.7	607.0	587.1	560.6	533.0	433.7	142.2	32.9	37.6
35°	639.4	637.6	627.6	614.7	595.9	570.0	540.6	439.0	125.8	30.0	35.8
37.5°	648.2	644.6	631.1	615.3	596.5	572.4	543.0	438.4	109.3	27.6	34.7
40°	662.9	653.5	634.1	612.9	593.5	569.4	541.2	433.7	91.1	25.9	33.5
42.5°	677.0	663.5	634.7	609.4	587.6	564.1	534.8	423.1	71.1	24.7	32.9
45°	681.7	661.7	626.4	601.2	580.6	556.5	525.9	400.8	48.2	23.5	31.7
47.5°	650.5	635.8	606.5	587.6	568.3	544.7	513.0	377.3	27.6	22.3	30.6
50°	593.5	584.1	567.7	555.9	545.3	528.9	497.7	342.6	16.5	21.2	29.4
52.5°	540.6	537.7	525.9	516.5	510.7	503.0	474.8	289.1	13.5	20.6	28.2
55°	468.9	459.5	456.6	453.1	465.4	464.8	426.6	198.0	12.9	19.4	27.0
57.5°	294.4	298.5	313.8	342.0	375.5	394.9	393.7	105.8	12.3	18.2	25.3
60°	223.9	223.3	228.0	239.8	264.4	292.1	317.9	37.0	11.8	17.0	24.1
62.5°	67.0	68.8	82.9	121.6	145.7	179.8	164.0	8.8	11.2	15.3	21.7
65°	13.5	14.1	14.1	15.9	19.4	29.4	35.8	7.6	10.6	14.1	20.0
67.5°	5.9	5.9	5.9	6.5	6.5	7.6	6.5	7.1	9.4	12.3	17.6
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.9	5.9	8.2	10.6	15.3
72.5°	4.1	4.1	4.1	4.7	4.7	4.7	4.7	5.3	7.1	8.8	12.9
75°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.7	5.9	7.6	10.6
77.5°	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5	4.7	5.9	8.8
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.9	3.5	4.7	6.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	2.9	3.5	4.7
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	2.4	2.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	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°	85.8	85.8	85.8
2.5°	65.2	61.7	59.9
5°	53.5	50.5	49.9
7.5°	49.4	48.8	48.8
10°	48.2	48.8	49.4
12.5°	48.2	49.4	49.9
15°	48.2	49.4	49.9
17.5°	48.2	49.4	49.9
20°	47.6	49.4	50.5
22.5°	47.0	49.4	49.9
25°	46.4	49.4	49.9
27.5°	45.8	48.8	49.9
30°	45.2	48.8	50.5
32.5°	44.1	48.8	50.5
35°	43.5	48.8	50.5
37.5°	42.9	48.8	51.1
40°	42.3	48.8	51.1
42.5°	41.7	48.8	51.1
45°	41.1	48.2	51.1
47.5°	40.0	48.2	51.1
50°	39.4	47.6	50.5
52.5°	38.2	47.0	50.5
55°	37.0	45.8	48.8
57.5°	35.3	44.1	46.4
60°	32.9	41.7	44.1
62.5°	30.0	38.8	40.5
65°	27.6	35.3	37.6
67.5°	24.1	31.1	33.5
70°	21.2	27.0	29.4
72.5°	18.2	22.9	25.3
75°	15.3	18.8	20.6
77.5°	11.8	15.3	16.5
80°	9.4	11.8	12.9
82.5°	6.5	8.2	8.8
85°	4.1	5.3	5.9
87.5°	1.8	2.4	2.4
90°	0.0	0.0	0.0

(END OF REPORT)