

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: P1323837

Luminaire Tested: LDSQA3D09R709030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323837
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: LDSQA3D09R709030D2WDE010 3LSQCA45R 1MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

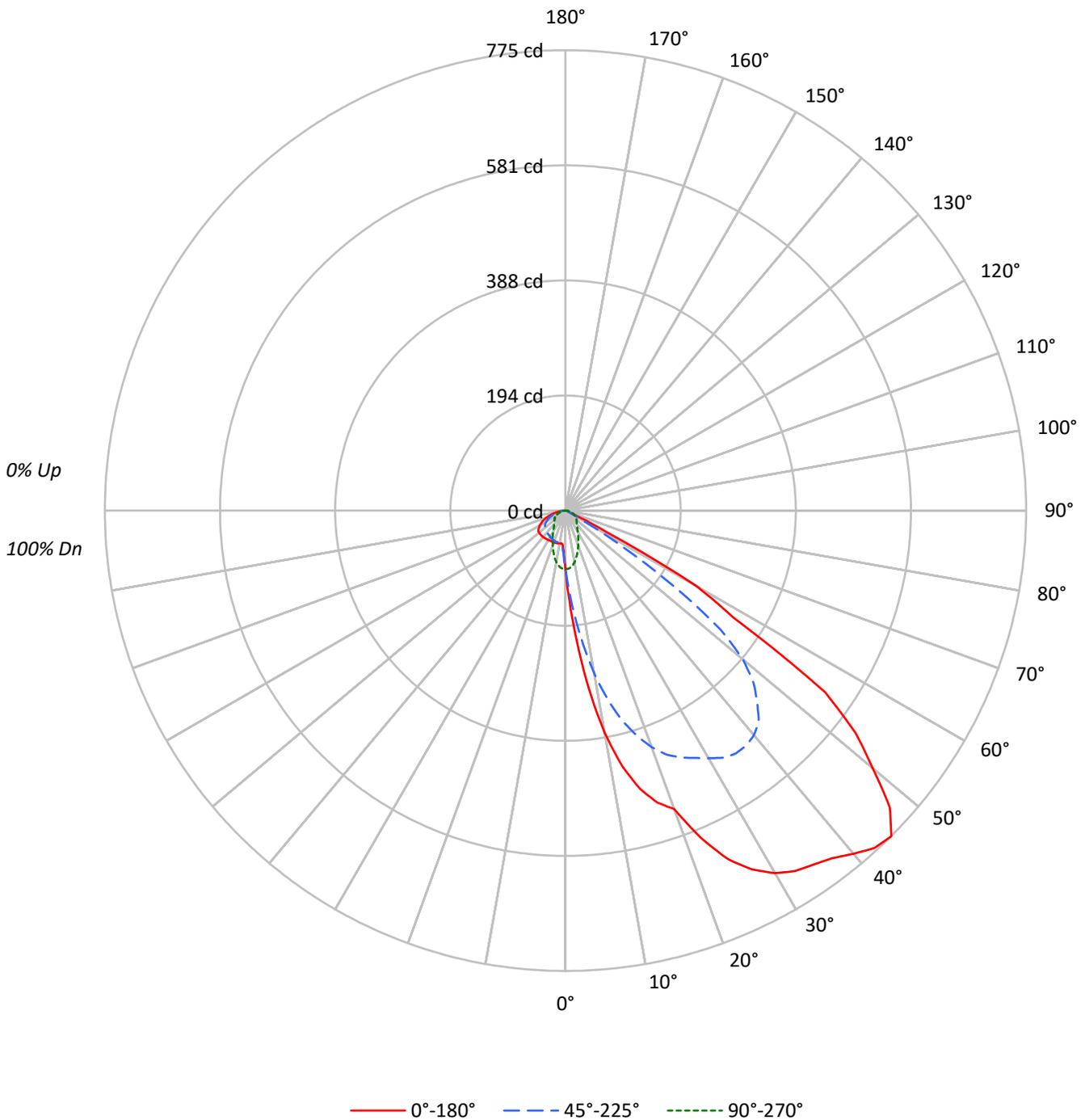
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.0 lumens
Efficiency: N/A
Efficacy: 45.6 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): 14.7
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	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°	16809	16809	16809	16809	16809
5°	38258	30617	16648	10511	9820
10°	66279	48634	15424	9583	9828
15°	86528	64954	13461	9771	10127
20°	98016	77672	11510	9915	10538
25°	123080	87146	9653	10033	10794
30°	140121	95714	8233	10242	11435
35°	152911	104975	7169	10407	12089
40°	169515	110904	6610	10814	13085
45°	188856	111039	6503	11399	14175
50°	180880	104413	6457	12003	15406
55°	160159	67649	6636	12641	16664
60°	87730	14501	6682	12882	17257
65°	6276	3545	6520	12796	17442
70°	3021	3374	6043	12135	16818
75°	2662	3527	5789	11578	15571
80°	2678	3273	5256	10612	14579
85°	2569	3952	5335	9287	13239

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 188856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.7	1.9
10°-20°	54.5	8.1
20°-30°	104.5	15.6
30°-40°	147.7	22.1
40°-50°	167.1	24.9
50°-60°	132.3	19.8
60°-70°	35.7	5.3
70°-80°	11.8	1.8
80°-90°	3.6	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°	171.6	25.6
0°-40°	319.4	47.7
0°-60°	618.8	92.4
0°-90°	670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	98	98	98	98	98	
5°	221	177	96	61	57	26
15°	485	364	76	55	57	137
25°	648	459	51	53	57	297
35°	727	499	34	50	58	458
45°	775	456	27	47	58	580
55°	533	225	22	42	56	433
65°	15	9	16	31	43	55
75°	4	5	9	17	23	4
85°	1	2	3	5	7	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°	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2.5°	151.7	151.7	151.1	148.4	147.1	143.7	141.0	133.7	115.6	98.3	84.2
5°	221.3	224.6	219.9	219.3	215.2	209.2	205.2	177.1	133.7	96.3	72.2
7.5°	303.5	304.8	303.5	296.8	290.8	280.8	271.4	227.3	151.7	92.9	63.5
10°	379.0	377.0	373.0	368.3	359.6	348.9	332.9	278.1	169.1	88.2	58.2
12.5°	440.5	439.8	435.2	430.5	419.8	405.8	389.7	324.2	183.8	82.2	55.5
15°	485.3	485.3	480.6	475.3	465.2	453.9	435.8	364.3	195.9	75.5	52.8
17.5°	515.4	514.0	510.7	506.7	498.7	487.3	473.3	396.4	203.9	68.9	52.1
20°	534.8	534.1	531.4	525.4	518.7	510.0	497.3	423.8	207.2	62.8	51.5
22.5°	596.9	591.6	581.6	568.9	552.8	532.1	514.7	444.5	205.9	56.2	50.1
25°	647.7	645.7	635.0	619.7	598.3	571.5	542.8	458.6	199.2	50.8	48.8
27.5°	681.2	677.8	667.8	651.1	628.4	602.3	575.5	469.3	189.8	46.1	46.8
30°	704.6	702.6	692.5	673.8	650.4	621.7	594.3	481.3	177.1	41.4	44.8
32.5°	719.3	717.3	707.2	690.5	667.8	637.7	606.3	493.3	161.8	37.4	42.8
35°	727.3	725.3	713.9	699.2	677.8	648.4	615.0	499.3	143.1	34.1	40.8
37.5°	737.3	733.3	717.9	699.9	678.5	651.1	617.7	498.7	124.3	31.4	39.4
40°	754.0	743.3	721.3	697.2	675.1	647.7	615.7	493.3	103.6	29.4	38.1
42.5°	770.1	754.7	721.9	693.2	668.5	641.7	608.3	481.3	80.9	28.1	37.4
45°	775.4	752.7	712.6	683.8	660.4	633.0	598.3	455.9	54.8	26.7	36.1
47.5°	740.0	723.3	689.9	668.5	646.4	619.7	583.6	429.2	31.4	25.4	34.8
50°	675.1	664.4	645.7	632.4	620.3	601.6	566.2	389.7	18.7	24.1	33.4
52.5°	615.0	611.6	598.3	587.6	580.9	572.2	540.1	328.9	15.4	23.4	32.1
55°	533.4	522.7	519.4	515.4	529.4	528.8	485.3	225.3	14.7	22.1	30.7
57.5°	334.9	339.6	357.0	389.0	427.1	449.2	447.9	120.3	14.0	20.7	28.7
60°	254.7	254.0	259.4	272.7	300.8	332.2	361.6	42.1	13.4	19.4	27.4
62.5°	76.2	78.2	94.3	138.4	165.8	204.5	186.5	10.0	12.7	17.4	24.7
65°	15.4	16.0	16.0	18.0	22.1	33.4	40.8	8.7	12.0	16.0	22.7
67.5°	6.7	6.7	6.7	7.4	7.4	8.7	7.4	8.0	10.7	14.0	20.1
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.7	6.7	9.4	12.0	17.4
72.5°	4.7	4.7	4.7	5.3	5.3	5.3	5.3	6.0	8.0	10.0	14.7
75°	4.0	4.0	4.0	4.0	4.7	4.7	4.7	5.3	6.7	8.7	12.0
77.5°	3.3	3.3	3.3	3.3	3.3	4.0	4.0	4.0	5.3	6.7	10.0
80°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	4.0	5.3	7.4
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.3	4.0	5.3
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.7	3.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	2.0
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°	97.6	97.6	97.6
2.5°	74.2	70.2	68.2
5°	60.8	57.5	56.8
7.5°	56.2	55.5	55.5
10°	54.8	55.5	56.2
12.5°	54.8	56.2	56.8
15°	54.8	56.2	56.8
17.5°	54.8	56.2	56.8
20°	54.1	56.2	57.5
22.5°	53.5	56.2	56.8
25°	52.8	56.2	56.8
27.5°	52.1	55.5	56.8
30°	51.5	55.5	57.5
32.5°	50.1	55.5	57.5
35°	49.5	55.5	57.5
37.5°	48.8	55.5	58.2
40°	48.1	55.5	58.2
42.5°	47.5	55.5	58.2
45°	46.8	54.8	58.2
47.5°	45.5	54.8	58.2
50°	44.8	54.1	57.5
52.5°	43.4	53.5	57.5
55°	42.1	52.1	55.5
57.5°	40.1	50.1	52.8
60°	37.4	47.5	50.1
62.5°	34.1	44.1	46.1
65°	31.4	40.1	42.8
67.5°	27.4	35.4	38.1
70°	24.1	30.7	33.4
72.5°	20.7	26.1	28.7
75°	17.4	21.4	23.4
77.5°	13.4	17.4	18.7
80°	10.7	13.4	14.7
82.5°	7.4	9.4	10.0
85°	4.7	6.0	6.7
87.5°	2.0	2.7	2.7
90°	0.0	0.0	0.0

(END OF REPORT)