

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: P1325754

Luminaire Tested: LDSQA3D09R15W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R15W2N902750DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

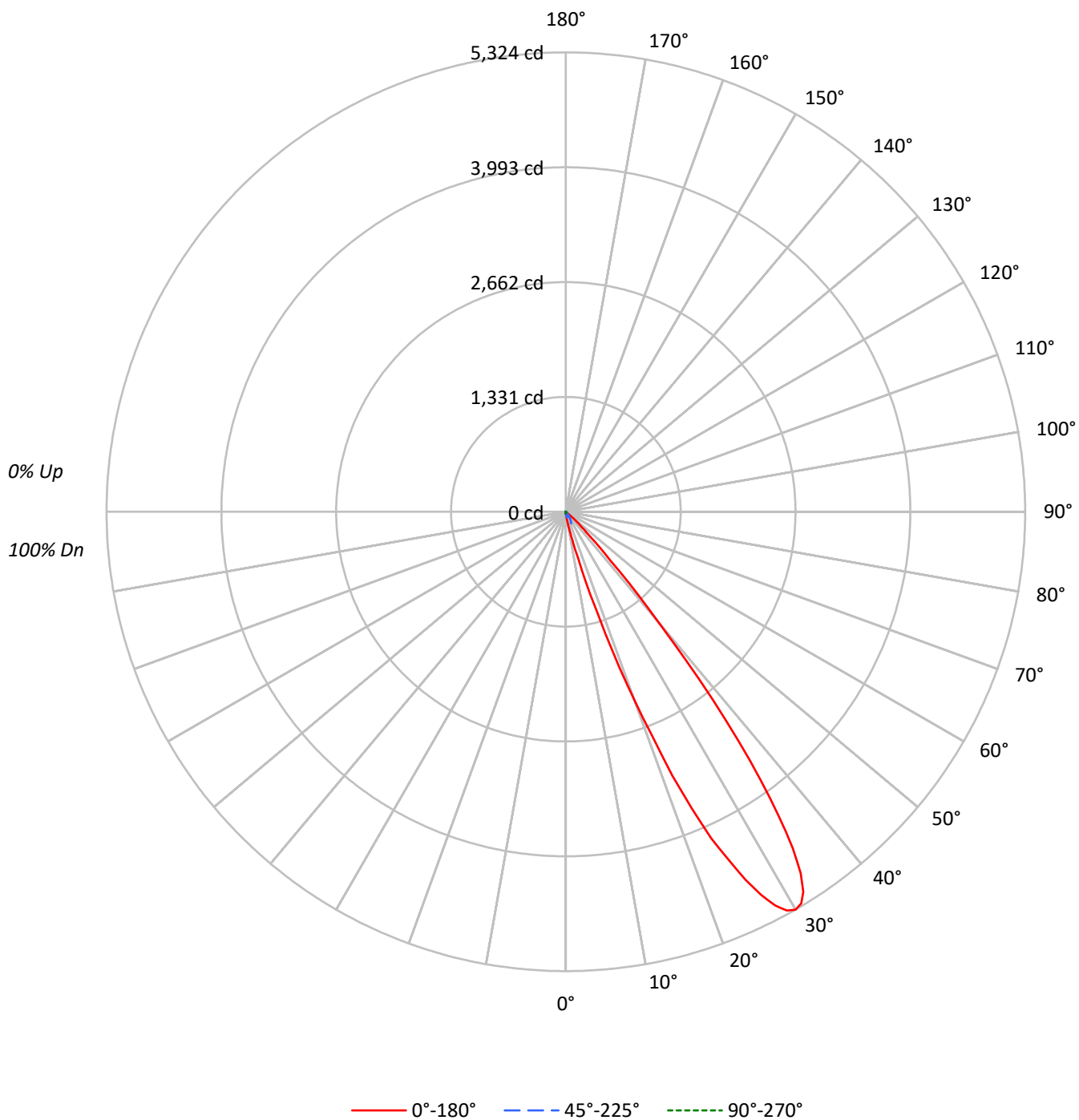
Lumens per Lamp: N/A
Luminaire Lumens: 563.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3462	3462	3462	3462	3462
5°	10027	7572	2974	1227	813
10°	26092	11280	1959	0	0
15°	104286	18472	1052	0	0
20°	426097	27235	330	0	0
25°	842293	27003	0	0	0
30°	1058661	21318	0	0	0
35°	903276	13077	0	0	0
40°	371876	4137	0	0	0
45°	80448	1729	0	0	0
50°	10315	0	0	0	0
55°	901	0	180	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	302	906	0	0
75°	0	399	1198	0	0
80°	0	595	1785	0	0
85°	0	1186	3557	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 84199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	39.5	7.0
20°-30°	230.0	40.8
30°-40°	246.6	43.8
40°-50°	41.6	7.4
50°-60°	1.3	0.2
60°-70°	0.4	0.1
70°-80°	0.6	0.1
80°-90°	0.5	0.1
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°	272.1	48.3
0°-40°	518.7	92.1
0°-60°	561.6	99.7
0°-90°	563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	563.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	58	44	17	7	5	8
15°	585	104	6	0	0	271
25°	4432	142	0	0	0	2005
35°	4296	62	0	0	0	2469
45°	330	7	0	0	0	390
55°	3	0	1	0	0	7
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	36.7	37.3	37.9	37.9	37.9	37.9	37.3	37.3	37.3	37.3	36.7
5°	58.0	58.0	58.0	58.0	58.0	58.0	57.4	57.4	57.4	57.4	57.4
7.5°	82.9	81.7	82.3	80.5	81.7	81.1	80.5	81.7	81.7	78.7	78.7
10°	149.2	148.6	142.7	143.9	145.0	144.5	144.5	140.9	140.3	137.9	135.6
12.5°	287.7	294.2	299.0	299.0	287.7	291.9	284.2	285.9	287.1	283.6	271.1
15°	584.9	595.6	584.3	595.0	590.8	575.4	558.3	535.2	544.1	528.1	522.8
17.5°	1281.1	1305.4	1295.4	1246.2	1262.2	1224.3	1200.6	1191.7	1166.9	1092.9	1062.1
20°	2324.9	2354.5	2326.7	2269.2	2287.6	2215.9	2197.6	2180.4	2070.3	2030.1	1901.0
21°	2764.2	2788.4	2799.1	2739.3	2702.6	2645.8	2598.4	2583.0	2516.1	2438.6	2305.9
22°	3294.6	3266.2	3202.3	3210.6	3156.1	3109.3	3043.6	2981.4	2906.8	2798.5	2689.0
23°	3733.9	3700.7	3670.6	3633.8	3575.2	3542.1	3448.0	3379.9	3282.8	3166.7	3061.4
24°	4143.0	4092.1	4073.1	4008.0	3991.4	3916.8	3840.5	3751.7	3634.4	3510.7	3394.1
25°	4432.5	4440.2	4423.6	4415.9	4331.3	4254.9	4179.1	4042.3	3942.3	3832.8	3653.4
26°	4742.7	4746.3	4738.0	4681.1	4604.8	4530.2	4432.5	4313.5	4168.4	4047.1	3884.9
27°	4980.1	4965.9	4954.1	4886.6	4823.8	4729.7	4640.9	4500.0	4358.5	4214.0	4025.8
28°	5169.6	5142.9	5128.1	5070.1	4996.7	4881.2	4772.3	4640.9	4499.4	4344.3	4140.6
29°	5283.8	5255.4	5238.8	5174.9	5090.2	4989.0	4878.9	4734.4	4582.3	4409.4	4204.6
30°	5323.5	5306.9	5280.9	5214.6	5126.9	5021.6	4908.5	4751.6	4592.3	4415.3	4198.6
31°	5297.4	5276.1	5251.3	5179.6	5084.9	4984.3	4852.8	4688.2	4520.7	4352.0	4122.3
32°	5193.8	5180.8	5150.6	5054.7	4977.7	4847.5	4717.8	4563.9	4381.0	4199.8	3992.0
33°	4999.7	4978.3	4952.3	4864.7	4766.4	4641.5	4512.4	4354.9	4173.2	3982.0	3753.4
34°	4703.6	4676.4	4643.8	4585.2	4459.7	4351.4	4202.2	4018.1	3867.7	3684.2	3477.6
35°	4296.3	4256.7	4217.6	4173.2	4032.3	3932.2	3831.6	3671.1	3526.1	3353.2	3119.4
36°	3839.3	3823.9	3791.9	3674.7	3629.1	3492.9	3411.8	3227.7	3110.5	2941.2	2748.2
37°	3322.4	3231.9	3278.0	3212.3	3075.0	3032.4	2935.9	2777.8	2651.1	2472.3	2332.6
38°	2768.3	2709.1	2741.7	2675.4	2603.7	2505.4	2432.0	2316.6	2174.5	2034.2	1901.6
39°	2194.0	2146.1	2181.6	2136.6	2027.7	1986.8	1921.7	1833.5	1719.2	1609.7	1484.2
40°	1654.1	1592.5	1639.9	1576.0	1526.2	1459.3	1426.2	1345.1	1274.0	1208.3	1128.4
42.5°	755.4	748.9	738.3	715.2	709.8	710.4	669.6	642.9	606.8	564.8	539.3
45°	330.3	338.6	345.7	332.7	332.1	325.0	322.7	304.9	297.8	284.2	267.6
47.5°	162.8	165.8	164.0	167.5	164.6	159.8	158.7	156.3	149.2	148.6	140.9
50°	38.5	37.9	37.9	38.5	37.9	37.9	37.3	36.1	35.5	36.1	34.3
52.5°	12.4	13.0	12.4	11.8	12.4	13.0	12.4	12.4	12.4	12.4	12.4
55°	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.4	3.0	3.0	3.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	36.1	30.8	25.5	20.1	14.8	11.8	11.2	10.7
5°	54.5	43.8	29.0	17.2	10.1	7.1	5.3	4.7
7.5°	73.4	54.5	32.0	14.2	7.1	3.0	1.2	0.6
10°	105.4	64.5	33.2	11.2	3.6	0.0	0.0	0.0
12.5°	206.6	74.0	32.6	8.9	0.6	0.0	0.0	0.0
15°	343.4	103.6	30.2	5.9	0.0	0.0	0.0	0.0
17.5°	562.4	133.8	26.0	4.1	0.0	0.0	0.0	0.0
20°	872.1	148.6	20.1	1.8	0.0	0.0	0.0	0.0
21°	1022.4	149.8	17.8	1.2	0.0	0.0	0.0	0.0
22°	1152.7	149.8	15.4	0.6	0.0	0.0	0.0	0.0
23°	1273.4	148.0	13.6	0.0	0.0	0.0	0.0	0.0
24°	1372.9	145.6	12.4	0.0	0.0	0.0	0.0	0.0
25°	1447.5	142.1	11.2	0.0	0.0	0.0	0.0	0.0
26°	1481.8	137.3	9.5	0.0	0.0	0.0	0.0	0.0
27°	1499.0	130.8	8.3	0.0	0.0	0.0	0.0	0.0
28°	1487.2	123.7	7.1	0.0	0.0	0.0	0.0	0.0
29°	1457.6	116.0	5.3	0.0	0.0	0.0	0.0	0.0
30°	1419.1	107.2	4.1	0.0	0.0	0.0	0.0	0.0
31°	1362.8	98.3	3.0	0.0	0.0	0.0	0.0	0.0
32°	1285.9	89.4	2.4	0.0	0.0	0.0	0.0	0.0
33°	1182.9	79.9	1.2	0.0	0.0	0.0	0.0	0.0
34°	1055.6	70.5	0.6	0.0	0.0	0.0	0.0	0.0
35°	912.9	62.2	0.0	0.0	0.0	0.0	0.0	0.0
36°	790.4	53.3	0.0	0.0	0.0	0.0	0.0	0.0
37°	667.2	42.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	558.9	33.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	462.4	27.2	0.0	0.0	0.0	0.0	0.0	0.0
40°	383.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	211.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	128.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	74.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.4	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.2	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.2	1.2	0.6	0.0	0.0	0.0
67.5°	0.0	0.0	1.2	1.8	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.2	1.8	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)