

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: P1327359

Luminaire Tested: LDSQA3D13R15W2N902750DE010 3LSQCA30R 1MMS_3500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327359
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: LDSQA3D13R15W2N902750DE010 3LSQCA30R 1MMS_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3500K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

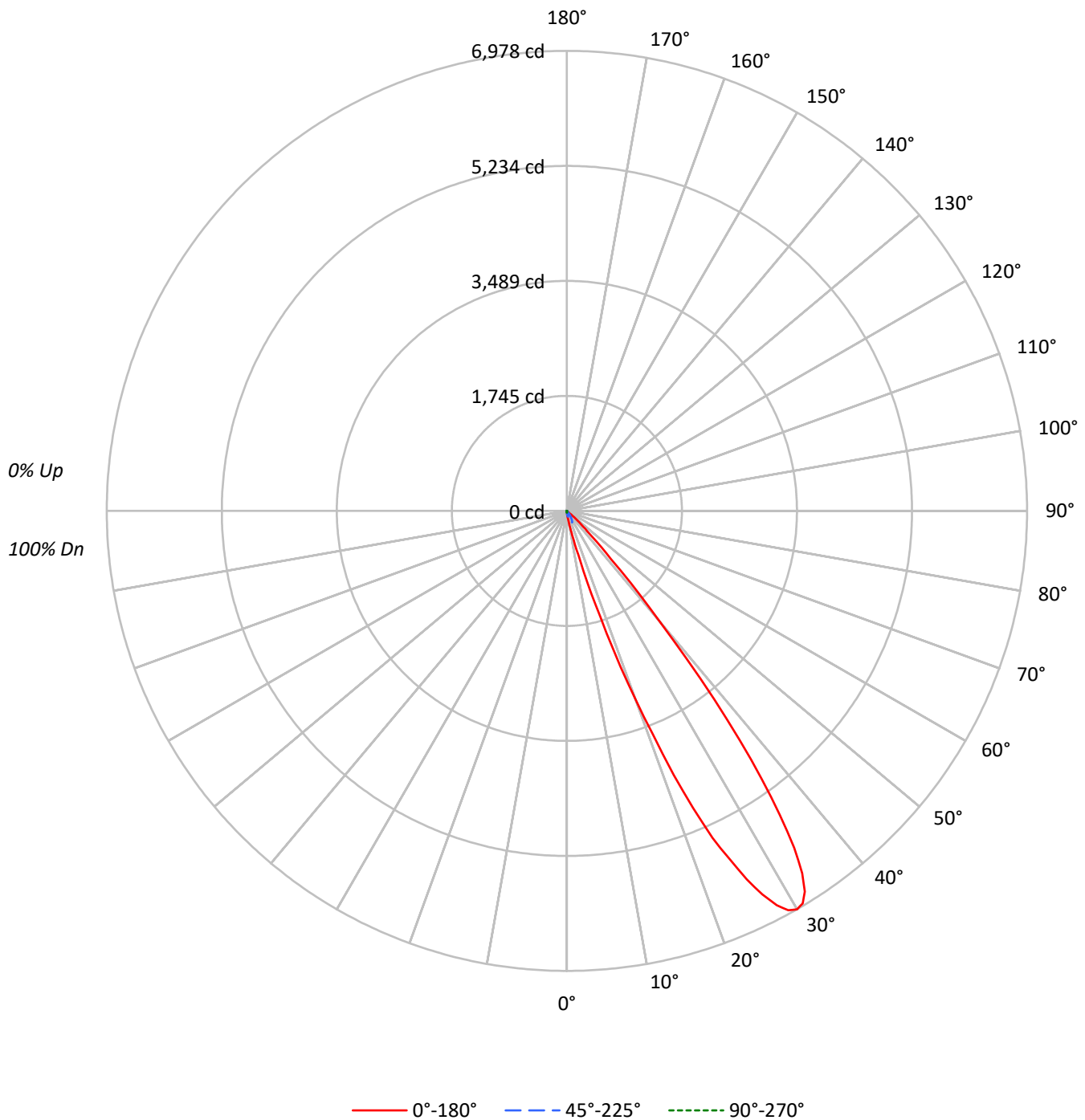
Lumens per Lamp: N/A
Luminaire Lumens: 738.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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°	4547	4547	4547	4547	4547
5°	13156	9923	3890	1608	1072
10°	34206	14795	2571	0	0
15°	136701	24213	1391	0	0
20°	558532	35702	422	0	0
25°	1104112	35402	0	0	0
30°	1387724	27941	0	0	0
35°	1184058	17135	0	0	0
40°	487479	5418	0	0	0
45°	105461	2265	0	0	0
50°	13504	0	0	0	0
55°	1171	0	240	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 110381 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	51.7	7.0
20°-30°	301.5	40.8
30°-40°	323.2	43.8
40°-50°	54.6	7.4
50°-60°	1.7	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	356.7	48.3
0°-40°	679.9	92.1
0°-60°	736.2	99.7
0°-90°	738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	76	57	22	9	6	10
15°	767	136	8	0	0	355
25°	5810	186	0	0	0	2629
35°	5632	82	0	0	0	3237
45°	433	9	0	0	0	512
55°	4	0	1	0	0	10
65°	0	0	2	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°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	48.1	48.9	49.7	49.7	49.7	49.7	48.9	48.9	48.9	48.9	48.1
5°	76.1	76.1	76.1	76.1	76.1	76.1	75.3	75.3	75.3	75.3	75.3
7.5°	108.6	107.1	107.9	105.5	107.1	106.3	105.5	107.1	107.1	103.2	103.2
10°	195.6	194.8	187.0	188.6	190.1	189.4	189.4	184.7	183.9	180.8	177.7
12.5°	377.2	385.7	391.9	391.9	377.2	382.6	372.5	374.8	376.4	371.7	355.4
15°	766.7	780.7	766.0	779.9	774.5	754.3	731.8	701.5	713.2	692.2	685.2
17.5°	1679.4	1711.2	1698.0	1633.6	1654.5	1604.9	1573.8	1562.2	1529.6	1432.6	1392.2
20°	3047.5	3086.3	3049.9	2974.6	2998.6	2904.7	2880.7	2858.2	2713.8	2661.1	2491.9
21°	3623.4	3655.2	3669.1	3590.8	3542.7	3468.2	3406.1	3385.9	3298.2	3196.5	3022.7
22°	4318.7	4281.5	4197.6	4208.5	4137.1	4075.8	3989.7	3908.2	3810.4	3668.4	3524.8
23°	4894.5	4851.1	4811.5	4763.4	4686.5	4643.1	4519.7	4430.5	4303.2	4151.1	4012.9
24°	5430.8	5364.0	5339.2	5253.8	5232.1	5134.3	5034.2	4917.8	4764.2	4602.0	4449.1
25°	5810.3	5820.4	5798.6	5788.5	5677.6	5577.4	5478.1	5298.8	5167.7	5024.1	4789.0
26°	6216.9	6221.6	6210.7	6136.2	6036.1	5938.3	5810.3	5654.3	5464.1	5305.1	5092.4
27°	6528.1	6509.5	6494.0	6405.5	6323.2	6199.8	6083.4	5898.7	5713.3	5523.9	5277.1
28°	6776.4	6741.5	6722.1	6646.1	6549.8	6398.5	6255.7	6083.4	5898.0	5694.6	5427.7
29°	6926.2	6889.0	6867.2	6783.4	6672.5	6539.7	6395.4	6206.0	6006.6	5780.0	5511.5
30°	6978.2	6956.5	6922.3	6835.4	6720.6	6582.4	6434.2	6228.6	6019.8	5787.8	5503.7
31°	6944.1	6916.1	6883.5	6789.6	6665.5	6533.5	6361.3	6145.5	5925.9	5704.7	5403.6
32°	6808.3	6791.2	6751.6	6625.9	6525.0	6354.3	6184.3	5982.5	5742.7	5505.3	5232.9
33°	6553.7	6525.8	6491.6	6376.8	6248.0	6084.2	5915.0	5708.6	5470.4	5219.7	4920.1
34°	6165.7	6130.0	6087.3	6010.5	5846.0	5703.9	5508.4	5267.0	5069.9	4829.3	4558.5
35°	5631.8	5579.8	5528.6	5470.4	5285.7	5154.5	5022.6	4812.3	4622.1	4395.5	4089.0
36°	5032.7	5012.5	4970.6	4816.9	4757.2	4578.7	4472.4	4231.0	4077.4	3855.4	3602.4
37°	4355.2	4236.4	4297.0	4210.8	4030.8	3974.9	3848.4	3641.2	3475.1	3240.8	3057.6
38°	3628.8	3551.2	3593.9	3507.0	3413.1	3284.2	3188.0	3036.7	2850.4	2666.5	2492.7
39°	2876.0	2813.2	2859.7	2800.8	2658.0	2604.4	2519.0	2403.4	2253.6	2110.1	1945.5
40°	2168.3	2087.6	2149.7	2065.8	2000.6	1913.0	1869.5	1763.2	1670.1	1583.9	1479.1
42.5°	990.2	981.7	967.7	937.5	930.5	931.3	877.7	842.8	795.4	740.3	707.0
45°	433.0	443.9	453.2	436.1	435.4	426.0	422.9	399.7	390.4	372.5	350.8
47.5°	213.4	217.3	215.0	219.6	215.7	209.5	208.0	204.9	195.6	194.8	184.7
50°	50.4	49.7	49.7	50.4	49.7	49.7	48.9	47.3	46.6	47.3	45.0
52.5°	16.3	17.1	16.3	15.5	16.3	17.1	16.3	16.3	16.3	16.3	16.3
55°	3.9	3.9	3.9	3.9	3.9	3.9	3.1	3.1	3.9	3.9	3.9
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°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	47.3	40.4	33.4	26.4	19.4	15.5	14.7	14.0
5°	71.4	57.4	38.0	22.5	13.2	9.3	7.0	6.2
7.5°	96.2	71.4	41.9	18.6	9.3	3.9	1.6	0.8
10°	138.1	84.6	43.5	14.7	4.7	0.0	0.0	0.0
12.5°	270.8	97.0	42.7	11.6	0.8	0.0	0.0	0.0
15°	450.1	135.8	39.6	7.8	0.0	0.0	0.0	0.0
17.5°	737.2	175.4	34.1	5.4	0.0	0.0	0.0	0.0
20°	1143.1	194.8	26.4	2.3	0.0	0.0	0.0	0.0
21°	1340.2	196.3	23.3	1.6	0.0	0.0	0.0	0.0
22°	1511.0	196.3	20.2	0.8	0.0	0.0	0.0	0.0
23°	1669.3	194.0	17.8	0.0	0.0	0.0	0.0	0.0
24°	1799.7	190.9	16.3	0.0	0.0	0.0	0.0	0.0
25°	1897.4	186.3	14.7	0.0	0.0	0.0	0.0	0.0
26°	1942.4	180.0	12.4	0.0	0.0	0.0	0.0	0.0
27°	1965.0	171.5	10.9	0.0	0.0	0.0	0.0	0.0
28°	1949.4	162.2	9.3	0.0	0.0	0.0	0.0	0.0
29°	1910.6	152.1	7.0	0.0	0.0	0.0	0.0	0.0
30°	1860.2	140.5	5.4	0.0	0.0	0.0	0.0	0.0
31°	1786.5	128.8	3.9	0.0	0.0	0.0	0.0	0.0
32°	1685.6	117.2	3.1	0.0	0.0	0.0	0.0	0.0
33°	1550.5	104.8	1.6	0.0	0.0	0.0	0.0	0.0
34°	1383.7	92.3	0.8	0.0	0.0	0.0	0.0	0.0
35°	1196.7	81.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	1036.0	69.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	874.6	55.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	732.6	44.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	606.1	35.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	502.1	24.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	277.8	16.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	168.4	9.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	97.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	37.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.6	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.3	0.8	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	0.8	1.6	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.3	0.8	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)