

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: P1312337

Luminaire Tested: LDSQA3D09R159050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R159050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

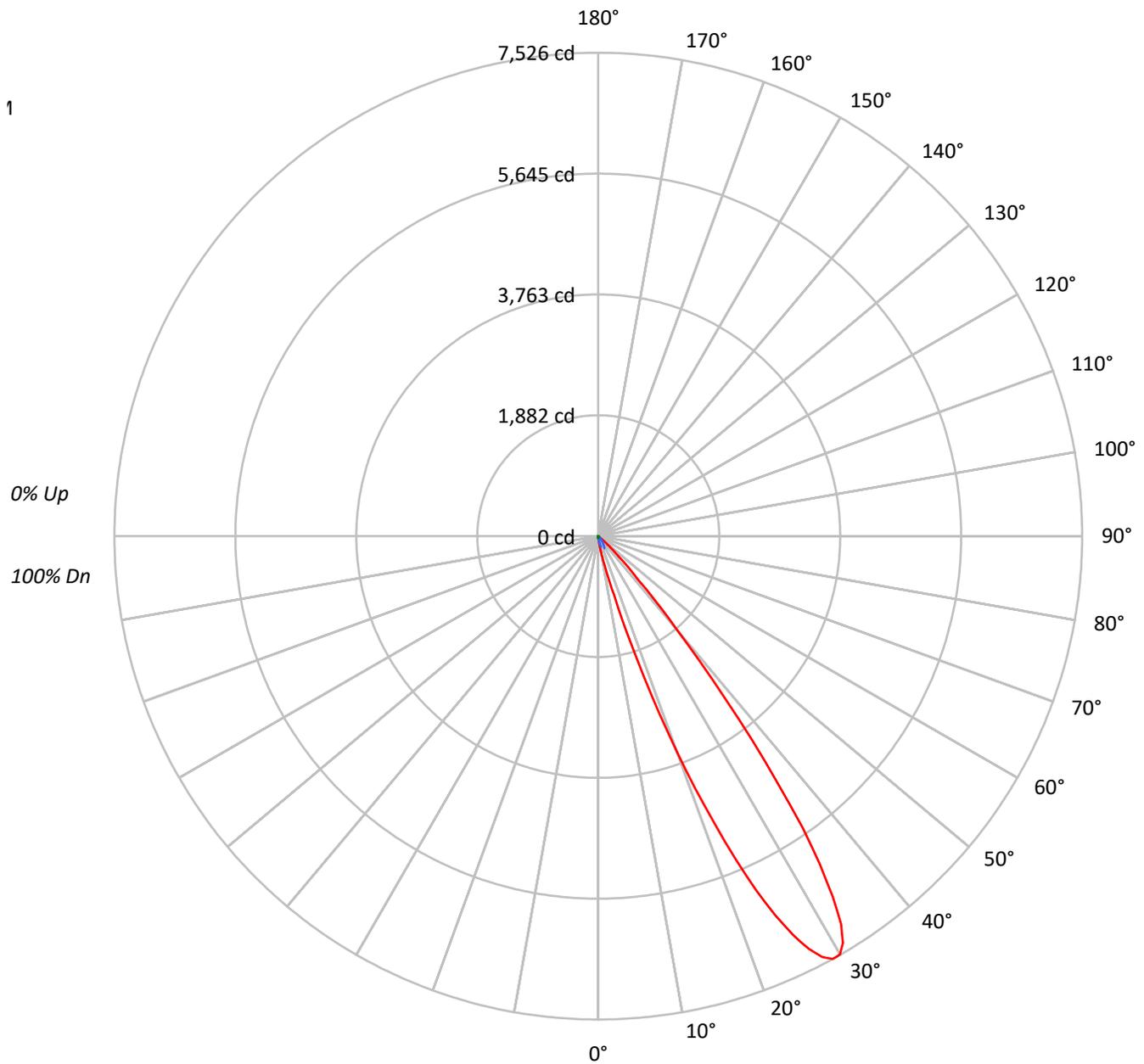
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 822.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P1312337
CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1312337

CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA30R 1MW

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	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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	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	69	64	72	67	64	71	66	63	61				
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55				
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41				
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4684	4684	4684	4684	4684
5°	10096	7468	4426	2351	1936
10°	44752	14130	3498	979	700
15°	169223	32646	2425	428	285
20°	650811	46020	1466	147	147
25°	1237587	43155	760	0	0
30°	1495032	34821	318	0	0
35°	1166019	23695	168	0	0
40°	425518	11691	180	0	180
45°	109261	3507	195	0	390
50°	18434	429	214	214	643
55°	2402	0	480	721	1201
60°	276	276	827	1102	1653
65°	326	326	1304	1630	1956
70°	403	403	1611	1611	2014
75°	532	532	2129	1597	2129
80°	0	793	2380	1587	2380
85°	0	1581	4742	1581	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 109261 cd/sqm



TEST NUMBER: P1312337

CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.5
10°-20°	63.0	7.7
20°-30°	349.4	42.5
30°-40°	337.5	41.1
40°-50°	58.7	7.1
50°-60°	4.2	0.5
60°-70°	2.5	0.3
70°-80°	2.0	0.2
80°-90°	1.0	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°	416.1	50.6
0°-40°	753.6	91.7
0°-60°	816.5	99.3
0°-90°	822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	58	43	26	14	11	11
15°	949	183	14	2	2	423
25°	6513	227	4	0	0	2912
35°	5546	113	1	0	0	3190
45°	449	14	1	0	2	482
55°	8	0	2	2	4	16
65°	1	1	3	4	5	1
75°	1	1	3	2	3	1
85°	0	1	2	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1312337

CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	40.0	38.4	39.2	39.2	39.2	39.2	39.2	37.6	37.6	38.4	34.4
5°	58.4	58.4	57.6	58.4	58.4	57.6	56.0	55.2	55.2	53.6	43.2
7.5°	116.7	115.1	115.1	113.5	105.5	103.1	101.5	97.6	90.4	88.8	56.0
10°	255.9	256.7	251.1	243.9	243.1	231.1	227.1	219.9	206.3	192.7	80.8
12.5°	464.6	454.2	440.6	441.4	418.2	410.2	391.8	371.8	351.0	329.4	132.7
15°	949.1	919.5	937.1	894.0	845.2	790.0	734.0	663.7	603.7	539.7	183.1
17.5°	1999.0	2027.8	1979.0	1794.3	1680.8	1547.2	1359.3	1177.8	1022.7	898.0	223.9
20°	3551.0	3593.4	3427.9	3267.2	2991.3	2690.7	2377.2	2022.2	1682.4	1388.1	251.1
21°	4199.5	4173.9	4105.9	3848.5	3530.2	3181.6	2797.8	2406.0	1994.2	1612.0	253.5
22°	4826.4	4838.4	4680.1	4410.6	4079.6	3693.3	3224.8	2741.0	2297.2	1794.3	249.5
23°	5450.9	5489.2	5279.8	5027.1	4610.5	4174.7	3632.6	3110.4	2561.9	2003.0	241.5
24°	6029.0	6002.6	5861.1	5542.8	5097.4	4587.3	4024.4	3391.1	2779.4	2181.3	235.1
25°	6512.7	6509.5	6287.2	5977.8	5468.5	4903.1	4282.7	3620.6	2965.7	2302.0	227.1
26°	6908.5	6843.8	6668.7	6291.2	5788.3	5191.8	4494.5	3787.7	3070.5	2362.8	219.1
27°	7214.0	7167.6	6932.5	6539.9	6014.6	5354.9	4630.5	3870.9	3118.4	2382.8	208.7
28°	7419.5	7369.1	7118.8	6714.2	6139.3	5457.3	4702.4	3906.0	3118.4	2363.6	199.1
29°	7525.8	7457.1	7207.6	6774.2	6168.1	5469.3	4684.9	3871.7	3069.7	2304.4	187.9
30°	7517.8	7432.3	7170.8	6719.8	6082.6	5370.9	4586.5	3747.7	2959.3	2216.5	175.1
31°	7388.3	7292.3	7000.5	6535.9	5905.8	5185.4	4401.0	3581.4	2808.2	2102.1	162.3
32°	7125.2	7003.7	6719.0	6256.1	5634.0	4907.9	4131.5	3324.7	2581.9	1935.0	148.7
33°	6696.6	6574.3	6268.9	5834.7	5266.2	4556.1	3774.1	3048.9	2324.4	1735.9	137.5
34°	6160.1	6048.2	5785.1	5347.7	4802.4	4110.7	3363.1	2667.5	2057.4	1538.4	125.5
35°	5546.0	5367.7	5129.4	4783.2	4251.5	3555.8	2919.3	2312.4	1782.3	1331.3	112.7
36°	4715.2	4747.2	4494.5	4070.8	3630.2	3084.9	2474.0	1927.8	1490.5	1134.6	101.5
37°	3978.8	3928.4	3767.7	3439.9	3056.1	2514.7	2073.4	1634.4	1253.8	959.5	89.6
38°	3209.6	3220.8	3063.3	2811.4	2430.8	2067.8	1668.8	1342.5	1049.1	816.4	78.4
39°	2512.3	2503.5	2461.2	2227.7	1883.1	1644.8	1352.1	1113.0	874.0	688.5	66.4
40°	1892.7	1907.0	1807.9	1667.2	1466.5	1270.6	1077.1	887.6	722.8	580.5	52.0
42.5°	920.3	942.7	877.2	841.2	752.4	675.7	570.1	465.4	395.8	342.2	23.2
45°	448.6	435.8	430.2	412.6	391.8	350.2	310.2	266.3	232.7	200.7	14.4
47.5°	229.5	223.1	223.1	215.9	208.7	195.1	175.1	160.7	144.7	124.7	5.6
50°	68.8	68.0	67.2	68.0	65.6	68.0	69.6	70.4	64.0	63.2	1.6
52.5°	27.2	28.0	27.2	29.6	29.6	28.8	29.6	28.8	28.0	24.8	0.0
55°	8.0	8.0	8.0	8.0	8.0	8.0	8.8	9.6	8.8	9.6	0.0
57.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



TEST NUMBER: P1312337

CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1312337

CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	27.2	27.2	27.2	27.2	27.2	27.2
2.5°	32.0	28.0	23.2	19.2	17.6	16.8
5°	34.4	25.6	17.6	13.6	12.0	11.2
7.5°	36.8	23.2	13.6	9.6	7.2	6.4
10°	38.4	20.0	10.4	5.6	4.0	4.0
12.5°	38.4	16.0	7.2	3.2	2.4	2.4
15°	37.6	13.6	4.8	2.4	1.6	1.6
17.5°	36.8	10.4	3.2	1.6	0.8	1.6
20°	34.4	8.0	1.6	0.8	0.8	0.8
21°	33.6	7.2	1.6	0.8	0.8	0.8
22°	32.0	6.4	0.8	0.0	0.8	0.8
23°	30.4	4.8	0.8	0.0	0.0	0.0
24°	28.0	4.0	0.8	0.0	0.0	0.0
25°	26.4	4.0	0.8	0.0	0.0	0.0
26°	24.8	2.4	0.0	0.0	0.0	0.0
27°	22.4	1.6	0.0	0.0	0.0	0.0
28°	20.8	1.6	0.0	0.0	0.0	0.0
29°	18.4	1.6	0.0	0.0	0.0	0.0
30°	16.0	1.6	0.0	0.0	0.0	0.0
31°	12.8	0.8	0.0	0.0	0.0	0.0
32°	10.4	0.8	0.0	0.0	0.0	0.0
33°	7.2	0.8	0.0	0.0	0.0	0.0
34°	4.8	0.8	0.0	0.0	0.0	0.0
35°	4.0	0.8	0.0	0.0	0.0	0.0
36°	2.4	0.8	0.0	0.0	0.0	0.8
37°	2.4	0.8	0.0	0.0	0.0	0.8
38°	1.6	0.8	0.0	0.0	0.0	0.8
39°	0.8	0.8	0.0	0.0	0.0	0.8
40°	0.8	0.8	0.0	0.0	0.0	0.8
42.5°	0.0	0.8	0.0	0.0	0.8	1.6
45°	0.0	0.8	0.0	0.0	0.8	1.6
47.5°	0.0	0.8	0.0	0.0	1.6	1.6
50°	0.0	0.8	0.8	0.8	1.6	2.4
52.5°	0.0	1.6	0.8	1.6	2.4	3.2
55°	0.8	1.6	1.6	2.4	3.2	4.0
57.5°	0.8	2.4	2.4	3.2	4.0	4.0
60°	1.6	2.4	3.2	3.2	4.8	4.8
62.5°	1.6	3.2	3.2	3.2	4.8	4.8
65°	1.6	3.2	3.2	4.0	4.8	4.8
67.5°	1.6	3.2	3.2	3.2	4.0	4.8
70°	1.6	3.2	2.4	3.2	4.0	4.0
72.5°	1.6	3.2	2.4	2.4	3.2	4.0
75°	1.6	3.2	2.4	2.4	3.2	3.2
77.5°	1.6	2.4	2.4	1.6	2.4	2.4
80°	1.6	2.4	1.6	1.6	2.4	2.4



TEST NUMBER: P1312337

CATALOG NUMBER: LDSQA3D09R159050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.6	2.4	1.6	0.8	1.6	1.6
85°	1.6	2.4	1.6	0.8	0.8	0.8
87.5°	1.6	2.4	0.8	0.0	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)