

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: P1317296

Luminaire Tested: LDSQA3D09R209827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R209827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

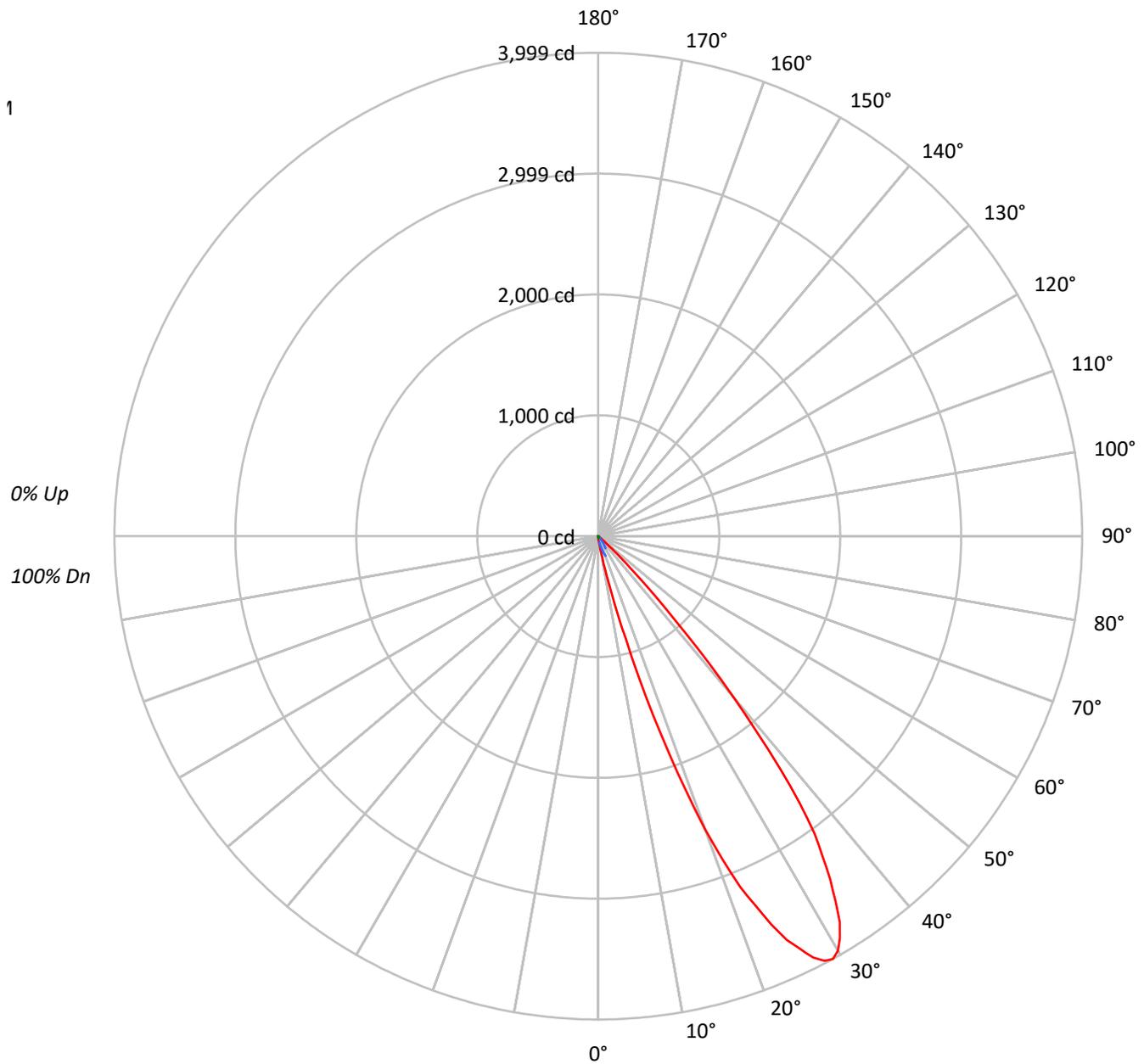
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 560.9 lumens
Efficiency: N/A
Efficacy: 51.0 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1317296
CATALOG NUMBER: LDSQA3D09R209827DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



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



TEST NUMBER: P1317296

CATALOG NUMBER: LDSQA3D09R209827DE010 3LSQCA30R 1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3324	3324	3324	3324	3324
5°	7659	5722	3164	1936	1677
10°	24116	9968	2588	1067	804
15°	156260	18418	1908	357	89
20°	471623	31523	1301	0	0
25°	700419	31810	779	0	0
30°	787647	24182	298	0	0
35°	679596	14444	210	0	0
40°	391323	4924	0	0	0
45°	95451	1973	122	0	122
50°	11467	536	134	134	402
55°	1531	0	300	300	601
60°	172	0	517	517	861
65°	204	204	815	815	1263
70°	252	252	1007	1007	1259
75°	0	333	1331	998	1331
80°	0	496	1488	992	1488
85°	0	988	2964	988	988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 96060 cd/sqm



TEST NUMBER: P1317296

CATALOG NUMBER: LDSQA3D09R209827DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	52.0	9.3
20°-30°	226.6	40.4
30°-40°	228.2	40.7
40°-50°	45.8	8.2
50°-60°	2.3	0.4
60°-70°	1.5	0.3
70°-80°	1.3	0.2
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°	281.2	50.1
0°-40°	509.4	90.8
0°-60°	557.4	99.4
0°-90°	560.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	44	33	18	11	10	7
15°	876	103	11	2	0	343
25°	3686	167	4	0	0	1662
35°	3232	69	1	0	0	1923
45°	392	8	0	0	0	427
55°	5	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1317296

CATALOG NUMBER: LDSQA3D09R209827DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	29.0	29.0	28.5	28.5	28.0	28.5	27.5	28.0	28.0	27.5	24.9
5°	44.3	45.3	44.8	44.8	44.3	44.8	43.8	42.8	41.7	41.7	33.1
7.5°	72.8	72.3	71.3	71.8	70.2	69.2	68.2	67.7	64.6	63.1	43.3
10°	137.9	141.0	138.4	137.9	128.8	128.3	122.2	113.5	105.9	101.8	57.0
12.5°	379.7	396.0	370.5	358.3	351.2	323.7	312.0	282.0	253.0	231.1	72.3
15°	876.4	916.6	865.2	868.8	826.0	747.7	679.0	619.9	550.2	479.9	103.3
17.5°	1717.2	1684.7	1656.7	1609.3	1522.3	1407.3	1259.2	1109.0	979.2	843.3	144.0
20°	2573.3	2544.3	2480.7	2377.4	2266.4	2095.9	1919.8	1694.3	1476.0	1271.4	172.0
21°	2868.0	2858.3	2754.0	2690.4	2519.4	2356.5	2153.4	1912.2	1666.3	1424.1	176.6
22°	3131.1	3073.1	3017.1	2923.0	2753.0	2575.8	2349.9	2095.9	1829.2	1560.0	177.1
23°	3313.3	3286.9	3233.9	3127.6	2958.6	2750.4	2512.2	2246.5	1965.6	1656.2	175.6
24°	3514.9	3481.3	3403.9	3279.7	3109.2	2903.6	2631.8	2368.2	2062.8	1737.1	171.5
25°	3685.9	3633.5	3541.9	3408.0	3221.7	3009.5	2736.2	2446.6	2130.5	1791.5	167.4
26°	3796.8	3768.3	3650.8	3505.2	3305.7	3086.8	2807.9	2506.6	2174.3	1816.5	160.8
27°	3912.4	3860.0	3744.4	3577.0	3360.7	3137.2	2848.6	2535.6	2189.5	1817.5	152.7
28°	3978.5	3921.5	3790.7	3614.6	3396.3	3165.2	2872.1	2544.8	2186.5	1801.7	143.0
29°	3999.4	3927.6	3799.9	3620.7	3404.9	3167.3	2868.5	2531.6	2159.5	1763.0	131.8
30°	3960.7	3887.4	3766.3	3591.7	3377.5	3141.8	2835.4	2487.8	2111.7	1707.6	121.6
31°	3876.2	3814.1	3697.1	3522.0	3316.4	3082.3	2760.6	2416.0	2030.2	1633.3	109.9
32°	3764.8	3703.7	3588.7	3430.4	3221.2	2985.1	2658.3	2304.1	1934.6	1522.3	98.2
33°	3597.3	3562.2	3458.9	3307.7	3098.5	2846.1	2520.9	2170.2	1798.2	1399.1	88.1
34°	3427.8	3383.6	3311.3	3145.9	2920.9	2669.0	2341.7	1985.5	1631.7	1261.2	78.4
35°	3232.4	3205.9	3092.4	2960.1	2734.1	2476.6	2151.4	1805.8	1437.8	1107.5	68.7
36°	3043.1	3002.4	2873.1	2733.1	2513.8	2235.4	1914.2	1589.5	1270.4	963.5	58.5
37°	2768.2	2706.1	2614.0	2466.4	2209.9	1972.7	1679.6	1378.3	1064.2	807.7	47.3
38°	2445.0	2416.0	2288.3	2139.7	1927.4	1702.5	1412.4	1156.9	878.0	674.4	36.1
39°	2063.8	2063.3	1941.2	1833.8	1626.1	1423.6	1162.0	939.0	724.8	543.1	28.0
40°	1740.6	1680.6	1605.3	1470.4	1311.1	1139.1	910.0	734.9	562.4	437.7	21.9
42.5°	912.6	907.5	863.2	761.9	672.8	571.6	454.5	378.7	296.2	241.2	13.7
45°	391.9	394.4	363.9	348.6	314.0	271.8	229.5	191.4	163.9	132.8	8.1
47.5°	99.2	95.2	94.2	97.7	97.7	94.7	85.0	79.9	73.8	67.7	4.6
50°	42.8	41.7	40.7	40.7	38.2	36.6	34.1	31.0	28.5	25.4	2.0
52.5°	15.8	16.3	16.8	16.3	16.3	15.8	15.8	15.3	13.7	12.2	1.0
55°	5.1	5.1	5.1	5.6	5.6	6.1	6.1	6.1	6.1	5.6	0.0
57.5°	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



TEST NUMBER: P1317296

CATALOG NUMBER: LDSQA3D09R209827DE010 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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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: P1317296

CATALOG NUMBER: LDSQA3D09R209827DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.3	19.3	19.3	19.3	19.3	19.3
2.5°	22.4	19.8	16.8	14.3	13.7	13.2
5°	24.9	18.3	13.7	11.2	10.2	9.7
7.5°	27.0	16.8	11.2	8.1	7.1	6.6
10°	28.0	14.8	9.2	6.1	4.6	4.6
12.5°	28.5	12.7	6.6	4.1	2.5	2.5
15°	28.0	10.7	5.1	2.0	0.5	0.5
17.5°	25.4	8.7	3.1	0.5	0.0	0.0
20°	21.9	7.1	2.0	0.0	0.0	0.0
21°	20.9	6.1	1.5	0.0	0.0	0.0
22°	19.3	5.6	1.0	0.0	0.0	0.0
23°	17.8	5.1	1.0	0.0	0.0	0.0
24°	16.3	4.6	0.5	0.0	0.0	0.0
25°	15.3	4.1	0.5	0.0	0.0	0.0
26°	14.3	3.6	0.5	0.0	0.0	0.0
27°	12.7	3.1	0.0	0.0	0.0	0.0
28°	11.7	2.5	0.0	0.0	0.0	0.0
29°	10.2	2.0	0.0	0.0	0.0	0.0
30°	8.7	1.5	0.0	0.0	0.0	0.0
31°	7.1	1.5	0.0	0.0	0.0	0.0
32°	6.1	1.0	0.0	0.0	0.0	0.0
33°	5.1	1.0	0.0	0.0	0.0	0.0
34°	4.6	1.0	0.0	0.0	0.0	0.0
35°	4.1	1.0	0.0	0.0	0.0	0.0
36°	3.1	0.5	0.0	0.0	0.0	0.0
37°	2.5	0.5	0.0	0.0	0.0	0.0
38°	2.0	0.5	0.0	0.0	0.0	0.0
39°	1.5	0.0	0.0	0.0	0.0	0.0
40°	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	0.5	1.5	1.5
55°	0.5	1.0	0.5	1.0	2.0	2.0
57.5°	0.5	1.0	1.0	1.5	2.0	2.5
60°	1.0	1.5	1.5	1.5	2.5	2.5
62.5°	1.0	1.5	2.0	2.0	2.5	3.1
65°	1.0	2.0	2.0	2.0	2.5	3.1
67.5°	1.5	2.0	2.0	2.0	2.5	3.1
70°	1.5	2.0	2.0	2.0	2.5	2.5
72.5°	1.5	2.0	1.5	2.0	2.0	2.5
75°	1.5	2.0	1.5	1.5	2.0	2.0
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



TEST NUMBER: P1317296

CATALOG NUMBER: LDSQA3D09R209827DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)