

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: P1315968

Luminaire Tested: LDSQA3D20R509735D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509735D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

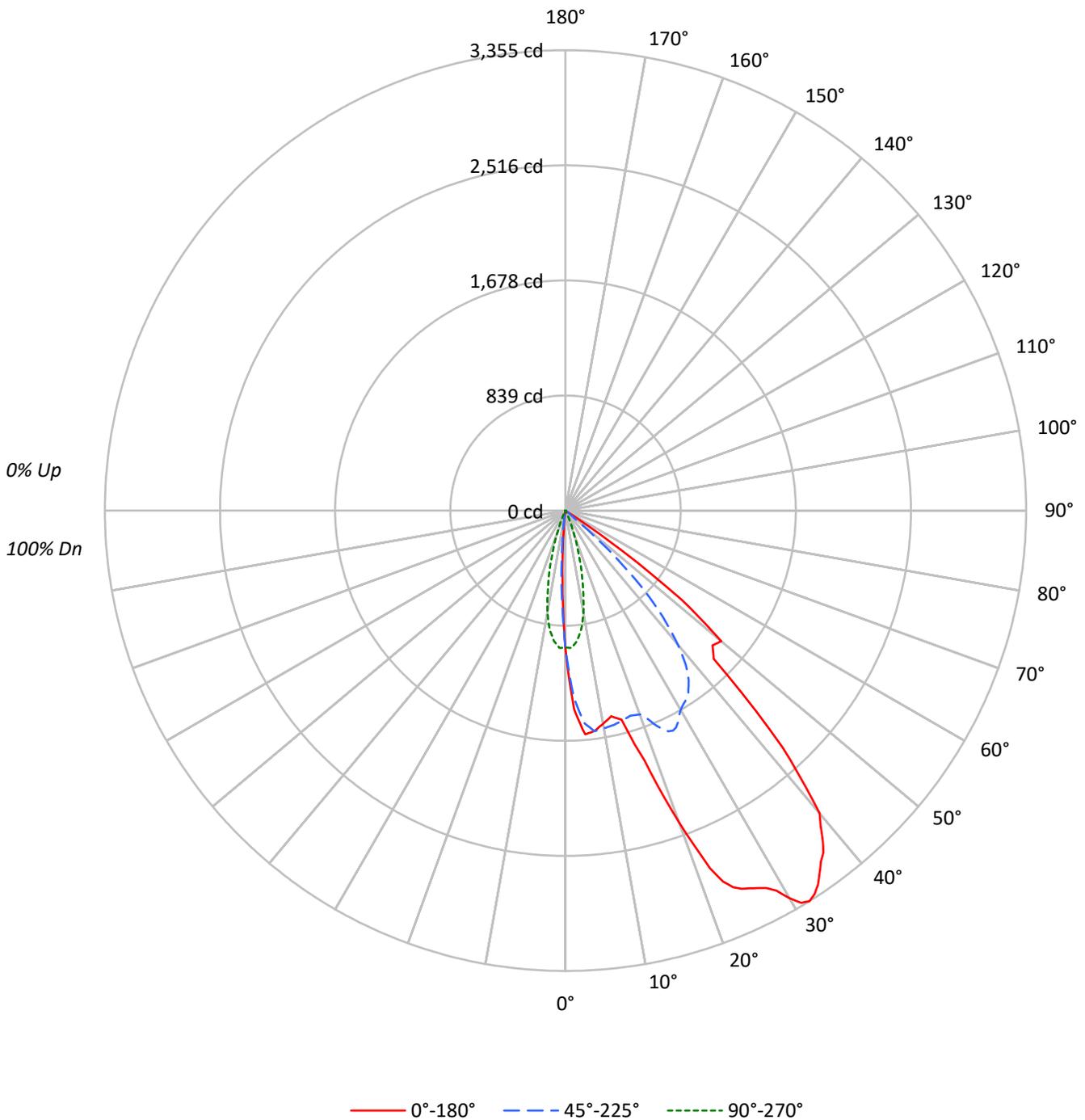
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1606.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1315968
CATALOG NUMBER: LDSQA3D20R509735D010 3LSQCA30R 1MB

Luminous Intensity Polar Plot





TEST NUMBER: P1315968

CATALOG NUMBER: LDSQA3D20R509735D010 3LSQCA30R 1MB

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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	171723	171723	171723	171723	171723
5°	282954	268518	165032	49012	24514
10°	275750	281818	132226	2483	3305
15°	281140	282834	79200	2532	838
20°	443160	289575	32623	0	0
25°	577719	337354	7791	0	0
30°	648461	333617	318	0	0
35°	678608	328550	0	0	0
40°	647394	285455	0	0	0
45°	371769	188393	0	0	0
50°	396725	21515	0	0	0
55°	113048	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	3174	1587	0
85°	0	3162	6323	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 410520 cd/sqm



TEST NUMBER: P1315968

CATALOG NUMBER: LDSQA3D20R509735D010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	5.2
10°-20°	211.0	13.1
20°-30°	405.3	25.2
30°-40°	471.7	29.4
40°-50°	337.6	21.0
50°-60°	94.0	5.9
60°-70°	0.6	0.0
70°-80°	1.0	0.1
80°-90°	1.2	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°	700.0	43.6
0°-40°	1171.7	73.0
0°-60°	1603.3	99.8
0°-90°	1606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	997	997	997	997	997	
5°	1637	1553	955	284	142	150
15°	1577	1586	444	14	5	509
25°	3040	1775	41	0	0	1383
35°	3228	1563	0	0	0	1997
45°	1526	774	0	0	0	1436
55°	376	0	0	0	0	474
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	3	2	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1315968
 CATALOG NUMBER: LDSQA3D20R509735D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1	997.1
2.5°	1449.2	1457.1	1458.7	1439.8	1442.9	1416.2	1417.7	1398.8	1353.1	1194.0	1001.9
5°	1636.7	1632.0	1636.7	1630.4	1636.7	1620.9	1611.5	1603.6	1553.2	1327.9	954.6
7.5°	1619.4	1613.1	1622.5	1625.7	1636.7	1632.0	1633.5	1638.3	1620.9	1400.4	874.3
10°	1576.8	1575.3	1580.0	1580.0	1592.6	1594.2	1600.5	1609.9	1611.5	1425.6	756.1
12.5°	1535.9	1531.1	1531.1	1529.6	1535.9	1534.3	1550.1	1572.1	1602.0	1409.9	593.9
15°	1576.8	1572.1	1565.8	1548.5	1535.9	1521.7	1523.3	1537.4	1586.3	1368.9	444.2
17.5°	1907.6	1882.4	1850.9	1795.8	1737.5	1636.7	1576.8	1539.0	1567.4	1305.9	296.1
20°	2418.0	2407.0	2356.6	2266.8	2172.3	2024.2	1839.9	1691.8	1580.0	1227.1	178.0
21°	2611.8	2605.5	2551.9	2468.4	2361.3	2181.7	1992.7	1814.7	1605.2	1194.0	140.2
22°	2810.3	2786.6	2744.1	2651.2	2539.3	2359.7	2148.6	1951.7	1655.6	1151.5	107.1
23°	2937.9	2923.7	2878.0	2804.0	2696.8	2522.0	2306.2	2091.9	1704.4	1104.3	80.3
24°	3004.0	2999.3	2963.1	2911.1	2819.7	2641.7	2436.9	2216.4	1745.4	1049.1	58.3
25°	3040.2	3024.5	3002.4	2964.6	2895.3	2740.9	2558.2	2325.1	1775.3	994.0	41.0
26°	3062.3	3052.8	3018.2	2985.1	2918.9	2792.9	2637.0	2391.2	1783.2	926.3	28.4
27°	3087.5	3065.4	3032.4	2993.0	2918.9	2808.7	2666.9	2419.6	1773.7	856.9	18.9
28°	3114.3	3098.5	3052.8	3002.4	2914.2	2808.7	2655.9	2381.8	1745.4	790.8	11.0
29°	3166.3	3145.8	3089.1	3015.0	2915.8	2805.5	2613.3	2303.0	1707.6	716.7	6.3
30°	3260.8	3218.2	3148.9	3045.0	2926.8	2799.2	2542.5	2184.9	1677.6	633.3	1.6
31°	3334.8	3311.2	3230.8	3100.1	2958.3	2781.9	2459.0	2068.3	1657.2	560.8	0.0
32°	3355.3	3338.0	3279.7	3156.8	3011.9	2767.7	2364.5	1954.9	1641.4	480.5	0.0
33°	3331.7	3320.6	3259.2	3147.4	3026.1	2748.8	2255.8	1843.0	1624.1	408.0	0.0
34°	3287.6	3273.4	3219.8	3106.4	2989.8	2666.9	2151.8	1758.0	1598.9	340.3	0.0
35°	3227.7	3216.7	3161.5	3049.7	2923.7	2539.3	2047.8	1701.3	1562.7	272.5	0.0
36°	3163.1	3160.0	3089.1	2978.8	2838.6	2416.4	1921.8	1658.7	1526.4	215.8	0.0
37°	3120.6	3104.8	3027.6	2918.9	2737.8	2273.1	1821.0	1644.6	1476.0	167.0	0.0
38°	3043.4	3046.5	2958.3	2859.1	2635.4	2148.6	1739.1	1633.5	1419.3	121.3	0.0
39°	2952.0	2953.6	2862.2	2777.2	2514.1	2017.9	1671.3	1622.5	1348.4	77.2	0.0
40°	2879.6	2878.0	2774.0	2682.7	2383.4	1895.0	1635.1	1606.8	1269.7	44.1	0.0
42.5°	2340.8	2350.3	2362.9	2400.7	2076.2	1679.2	1600.5	1518.5	1046.0	0.0	0.0
45°	1526.4	1562.7	1572.1	1685.5	1683.9	1591.0	1518.5	1361.0	773.5	0.0	0.0
47.5°	1452.4	1463.4	1483.9	1528.0	1551.6	1505.9	1357.9	1137.3	422.2	0.0	0.0
50°	1480.7	1479.2	1483.9	1483.9	1441.4	1323.2	1113.7	839.6	80.3	0.0	0.0
52.5°	1063.3	1102.7	1145.2	1164.1	1109.0	984.5	812.8	493.1	0.0	0.0	0.0
55°	376.5	363.9	354.4	387.5	379.6	426.9	352.9	115.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	6.3	14.2	18.9	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	1.6	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2



TEST NUMBER: P1315968

CATALOG NUMBER: LDSQA3D20R509735D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.2
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: P1315968
 CATALOG NUMBER: LDSQA3D20R509735D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	997.1	997.1	997.1	997.1
2.5°	798.7	612.8	496.2	504.1
5°	560.8	283.5	174.9	141.8
7.5°	335.5	86.6	17.3	14.2
10°	157.5	14.2	15.8	18.9
12.5°	47.3	12.6	17.3	15.8
15°	12.6	14.2	7.9	4.7
17.5°	4.7	6.3	0.0	0.0
20°	3.2	0.0	0.0	0.0
21°	3.2	0.0	0.0	0.0
22°	1.6	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.6	0.0	0.0	0.0
67.5°	1.6	0.0	0.0	0.0
70°	1.6	0.0	0.0	0.0
72.5°	1.6	0.0	0.0	0.0
75°	1.6	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0
80°	1.6	1.6	0.0	0.0



TEST NUMBER: P1315968
CATALOG NUMBER: LDSQA3D20R509735D010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.6	1.6	0.0	0.0
85°	1.6	1.6	0.0	0.0
87.5°	1.6	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)