

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: P1309741

Luminaire Tested: LDSQA3D24R509030D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

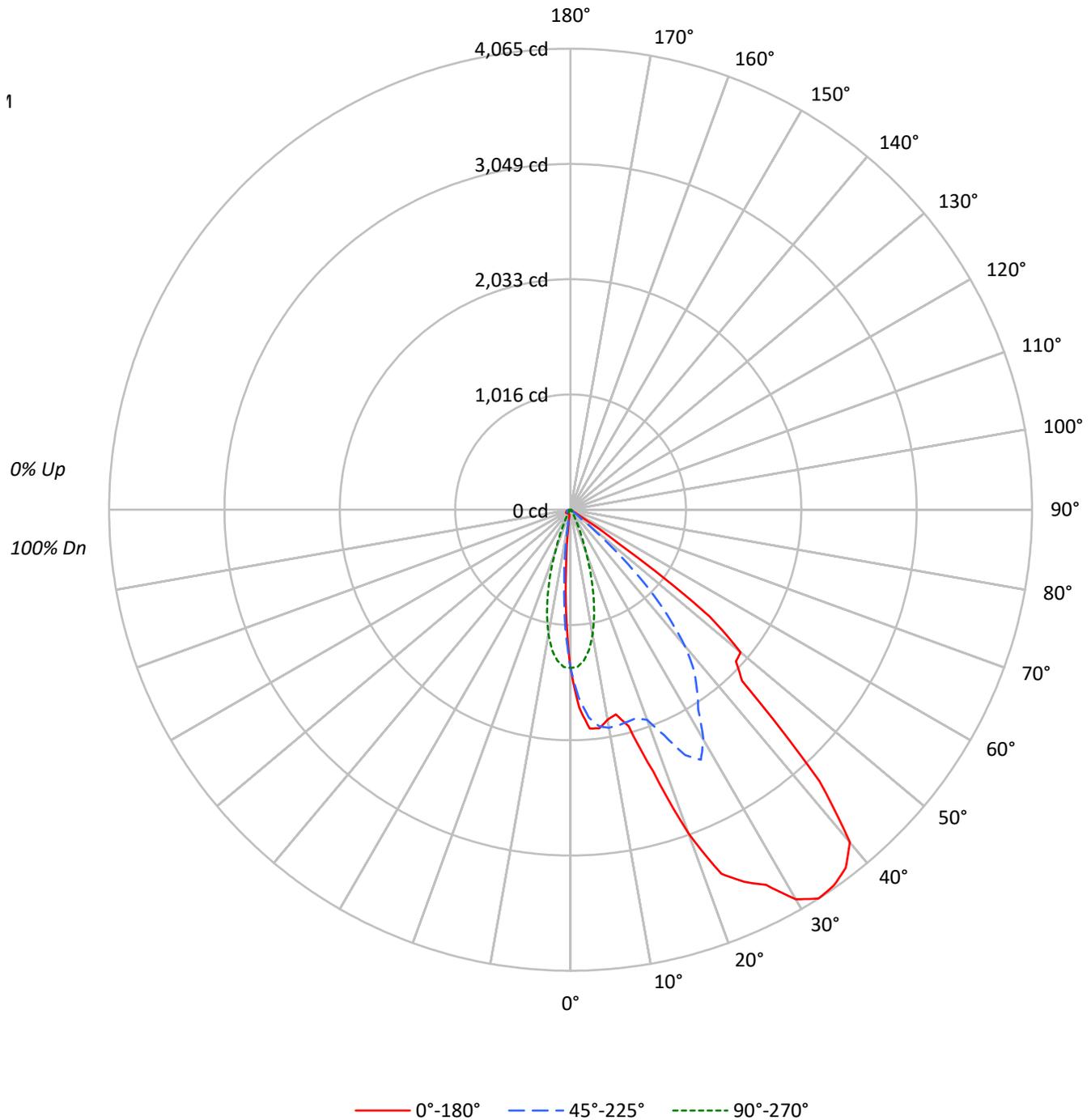
Test Method: LM-79-2019  
Report Number: P1309741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R509030D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2168.9 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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 (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

TEST NUMBER: P1309741  
CATALOG NUMBER: LDSQA3D24R509030D010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1309741

CATALOG NUMBER: LDSQA3D24R509030D010 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	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	240164	240164	240164	240164	240164
5°	334870	317703	230847	110955	71987
10°	328721	341417	195096	23381	10021
15°	352513	345024	137949	8166	7827
20°	556663	361309	72815	7001	7349
25°	687878	453746	29036	6537	7259
30°	788641	465365	11773	6463	7597
35°	850231	408443	5214	6833	8431
40°	860636	351732	3867	7734	9442
45°	520170	227972	3726	8378	10692
50°	524100	39413	4099	9726	12271
55°	154875	2282	4594	10899	13752
60°	2618	2618	4616	11849	15121
65°	2323	2323	4686	12470	16341
70°	2870	2870	4834	13445	18279
75°	2529	2529	5057	13974	19097
80°	1884	3769	5653	13290	20828
85°	3754	7509	7509	15018	18970

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 594139 cd/sqm



TEST NUMBER: P1309741

CATALOG NUMBER: LDSQA3D24R509030D010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	5.2
10°-20°	280.0	12.9
20°-30°	524.5	24.2
30°-40°	627.1	28.9
40°-50°	449.4	20.7
50°-60°	138.5	6.4
60°-70°	18.1	0.8
70°-80°	13.1	0.6
80°-90°	5.4	0.2
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°	917.3	42.3
0°-40°	1544.4	71.2
0°-60°	2132.4	98.3
0°-90°	2168.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1394	1394	1394	1394	1394	
5°	1937	1838	1335	642	416	180
15°	1977	1935	774	46	44	633
25°	3620	2388	153	34	38	1668
35°	4044	1943	25	32	40	2509
45°	2136	936	15	34	44	1962
55°	516	8	15	36	46	664
65°	6	6	12	31	40	6
75°	4	4	8	21	29	4
85°	2	4	4	8	10	1
90°	0	0	0	0	0	



TEST NUMBER: P1309741

CATALOG NUMBER: LDSQA3D24R509030D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5
2.5°	1744.1	1747.9	1753.6	1738.3	1728.8	1721.1	1707.8	1703.9	1671.5	1658.1	1644.7
5°	1937.0	1933.2	1937.0	1931.3	1927.4	1916.0	1904.5	1885.4	1864.4	1837.7	1807.1
7.5°	1942.7	1938.9	1946.5	1946.5	1954.2	1954.2	1954.2	1956.1	1944.6	1925.5	1898.8
10°	1879.7	1879.7	1887.3	1883.5	1896.9	1902.6	1916.0	1938.9	1950.4	1952.3	1944.6
12.5°	1847.2	1847.2	1849.1	1841.5	1845.3	1851.0	1866.3	1893.1	1919.8	1946.5	1961.8
15°	1977.1	1980.9	1954.2	1916.0	1887.3	1856.8	1847.2	1864.4	1893.1	1935.1	1969.5
17.5°	2418.4	2424.1	2395.5	2303.8	2215.9	2089.8	1977.1	1921.7	1891.1	1925.5	1971.4
20°	3037.3	3016.3	2966.6	2869.2	2741.2	2546.4	2370.6	2193.0	2023.0	1971.4	1986.7
22.5°	3474.7	3467.1	3427.0	3318.1	3207.3	3025.8	2802.3	2554.0	2307.6	2150.9	2068.8
25°	3619.9	3614.2	3577.9	3512.9	3451.8	3314.3	3113.7	2863.5	2605.6	2387.8	2181.5
27.5°	3728.8	3721.2	3663.9	3591.3	3528.2	3388.8	3205.4	3016.3	2779.4	2485.2	2168.1
30°	3965.7	3944.7	3864.4	3734.5	3614.2	3421.3	3218.8	2983.8	2662.9	2340.1	2030.6
32.5°	4065.0	4053.5	3984.8	3879.7	3747.9	3495.8	3188.2	2794.7	2372.5	2093.6	1868.2
35°	4044.0	4026.8	3956.1	3835.8	3675.3	3432.7	3022.0	2481.4	2137.6	1942.7	1688.7
37.5°	3981.0	3956.1	3872.1	3730.7	3535.9	3218.8	2682.0	2227.4	2005.8	1786.1	1444.1
40°	3828.1	3788.0	3690.6	3543.5	3348.7	2932.2	2372.5	2074.5	1868.2	1564.5	1171.0
42.5°	3243.6	3222.6	3270.3	3245.5	3073.6	2582.7	2152.9	1935.1	1650.5	1264.6	848.2
45°	2135.7	2172.0	2257.9	2405.0	2439.4	2221.6	1973.3	1705.9	1358.2	936.0	489.0
47.5°	1977.1	1969.5	1990.5	2019.1	2024.9	1933.2	1707.8	1409.8	1008.6	534.9	135.6
50°	1956.1	1944.6	1927.4	1893.1	1820.5	1642.8	1386.8	1027.7	582.6	147.1	9.6
52.5°	1545.4	1533.9	1533.9	1484.3	1390.7	1218.7	957.0	565.4	162.4	9.6	7.6
55°	515.8	550.2	544.4	542.5	584.5	538.7	412.6	145.2	13.4	7.6	7.6
57.5°	9.6	9.6	9.6	17.2	26.7	38.2	22.9	11.5	7.6	7.6	7.6
60°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
62.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6
67.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	5.7
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7
77.5°	1.9	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	3.8
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9
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: P1309741

CATALOG NUMBER: LDSQA3D24R509030D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5	1394.5
2.5°	1614.2	1587.4	1535.8	1388.8	1226.4	1041.1	915.0	899.7
5°	1759.3	1719.2	1635.2	1335.3	964.7	641.8	477.6	416.4
7.5°	1854.9	1801.4	1698.2	1247.4	703.0	338.1	181.5	145.2
10°	1912.2	1862.5	1730.7	1115.6	447.0	133.7	61.1	57.3
12.5°	1942.7	1895.0	1742.1	957.0	252.2	61.1	47.8	47.8
15°	1963.7	1912.2	1725.0	773.7	126.1	45.8	43.9	43.9
17.5°	1973.3	1910.2	1675.3	582.6	66.9	42.0	42.0	42.0
20°	1979.0	1889.2	1583.6	397.3	45.8	38.2	40.1	40.1
22.5°	1984.7	1837.7	1463.3	252.2	36.3	36.3	38.2	38.2
25°	1973.3	1747.9	1293.2	152.8	32.5	34.4	36.3	38.2
27.5°	1891.1	1612.3	1086.9	93.6	28.7	32.5	36.3	38.2
30°	1749.8	1413.6	848.2	59.2	26.7	32.5	36.3	38.2
32.5°	1566.4	1186.3	605.5	36.3	26.7	32.5	36.3	38.2
35°	1320.0	907.4	393.5	24.8	26.7	32.5	38.2	40.1
37.5°	1043.0	634.2	212.0	19.1	26.7	32.5	38.2	40.1
40°	750.7	380.1	76.4	17.2	24.8	34.4	40.1	42.0
42.5°	439.4	141.4	13.4	15.3	24.8	34.4	40.1	42.0
45°	126.1	15.3	7.6	15.3	24.8	34.4	42.0	43.9
47.5°	9.6	5.7	7.6	15.3	24.8	34.4	42.0	45.8
50°	5.7	5.7	5.7	15.3	24.8	36.3	43.9	45.8
52.5°	7.6	7.6	7.6	15.3	24.8	36.3	43.9	45.8
55°	7.6	7.6	7.6	15.3	24.8	36.3	43.9	45.8
57.5°	7.6	7.6	7.6	15.3	24.8	34.4	43.9	45.8
60°	7.6	7.6	7.6	13.4	22.9	34.4	42.0	43.9
62.5°	7.6	7.6	7.6	13.4	22.9	32.5	42.0	42.0
65°	7.6	7.6	7.6	11.5	21.0	30.6	38.2	40.1
67.5°	7.6	7.6	7.6	11.5	19.1	28.7	36.3	38.2
70°	5.7	7.6	7.6	9.6	17.2	26.7	34.4	36.3
72.5°	5.7	5.7	7.6	9.6	15.3	22.9	30.6	32.5
75°	5.7	5.7	5.7	7.6	13.4	21.0	26.7	28.7
77.5°	5.7	5.7	5.7	7.6	11.5	17.2	24.8	24.8
80°	3.8	5.7	5.7	5.7	9.6	13.4	19.1	21.0
82.5°	3.8	3.8	3.8	5.7	7.6	11.5	15.3	15.3
85°	3.8	3.8	3.8	3.8	5.7	7.6	9.6	9.6
87.5°	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)