

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: P1309290

Luminaire Tested: LDSQA3D13R509030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309290
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: LDSQA3D13R509030DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

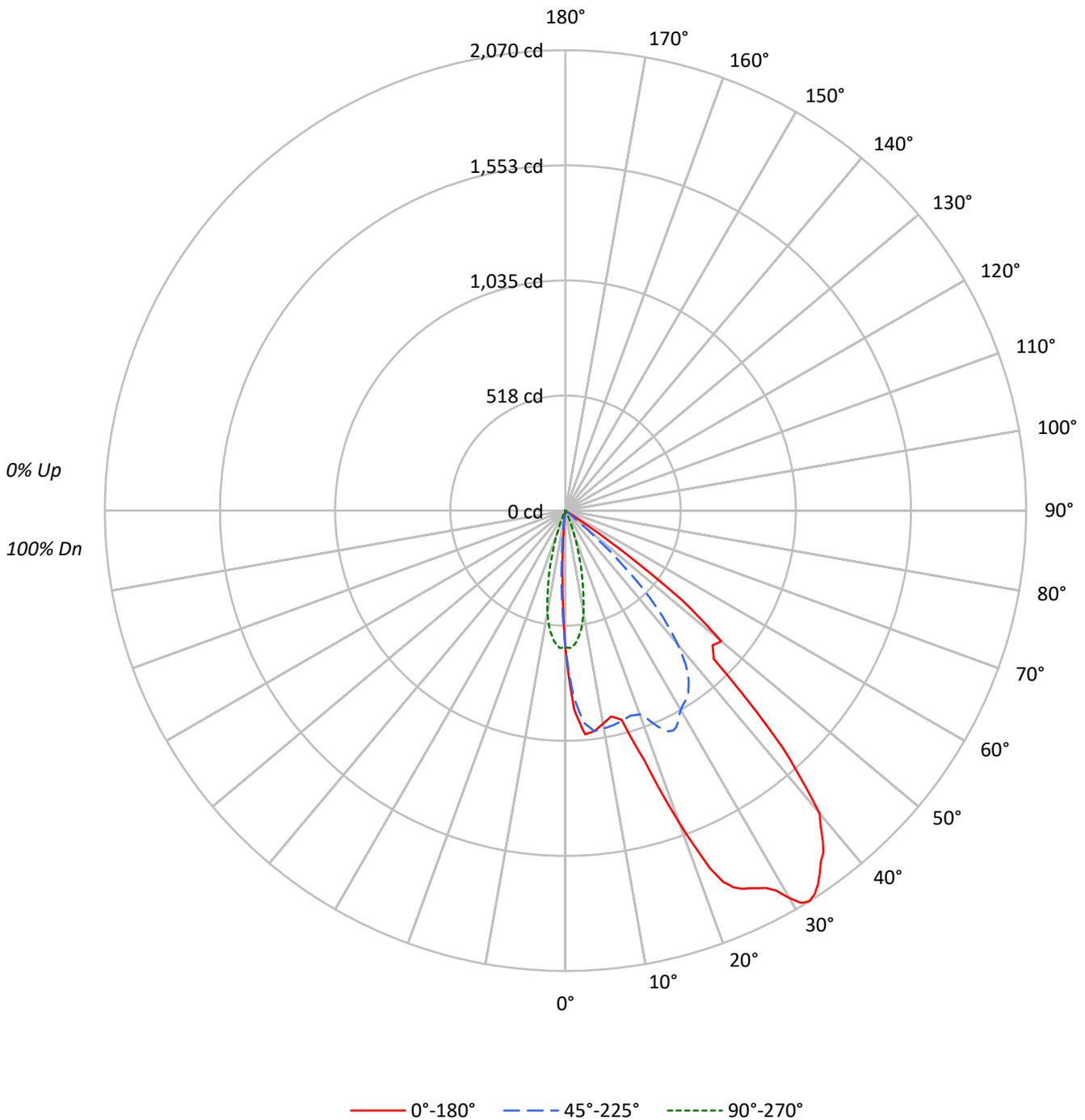
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 991.0 lumens
Efficiency: N/A
Efficacy: 67.9 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): 14.6
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: P1309290
CATALOG NUMBER: LDSQA3D13R509030DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot





TEST NUMBER: P1309290

CATALOG NUMBER: LDSQA3D13R509030DE010 3LSQCA30R 1MB

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	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	82	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	72	69	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59	66	62	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54	60	56	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	55	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	51	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	47	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	44	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	105969	105969	105969	105969	105969
5°	174592	165689	101827	30254	15127
10°	170158	173900	81599	1521	2046
15°	173484	174518	48871	1551	517
20°	273465	178675	20124	0	0
25°	356490	208174	4808	0	0
30°	400137	205866	199	0	0
35°	418745	202739	0	0	0
40°	399484	176147	0	0	0
45°	229409	116251	0	0	0
50°	244808	13289	0	0	0
55°	69751	0	0	0	0
60°	0	0	344	0	0
65°	0	408	408	0	0
70°	0	504	504	0	0
75°	0	665	665	0	0
80°	0	992	1884	992	0
85°	0	1976	3754	1976	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 253326 cd/sqm



TEST NUMBER: P1309290

CATALOG NUMBER: LDSQA3D13R509030DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	5.2
10°-20°	130.2	13.1
20°-30°	250.1	25.2
30°-40°	291.1	29.4
40°-50°	208.3	21.0
50°-60°	58.0	5.9
60°-70°	0.4	0.0
70°-80°	0.6	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°	431.9	43.6
0°-40°	723.0	73.0
0°-60°	989.3	99.8
0°-90°	991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	991.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	615	615	615	615	615	
5°	1010	958	589	175	88	93
15°	973	979	274	9	3	314
25°	1876	1096	25	0	0	853
35°	1992	964	0	0	0	1232
45°	942	477	0	0	0	886
55°	232	0	0	0	0	292
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1309290
 CATALOG NUMBER: LDSQA3D13R509030DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3	615.3
2.5°	894.3	899.1	900.1	888.4	890.4	873.9	874.8	863.2	835.0	736.8	618.2
5°	1009.9	1007.0	1009.9	1006.0	1009.9	1000.2	994.4	989.5	958.4	819.4	589.0
7.5°	999.2	995.4	1001.2	1003.1	1009.9	1007.0	1008.0	1010.9	1000.2	864.1	539.5
10°	973.0	972.0	974.9	974.9	982.7	983.7	987.6	993.4	994.4	879.7	466.6
12.5°	947.7	944.8	944.8	943.8	947.7	946.8	956.5	970.1	988.6	870.0	366.5
15°	973.0	970.1	966.2	955.5	947.7	939.0	940.0	948.7	978.8	844.7	274.1
17.5°	1177.1	1161.6	1142.1	1108.1	1072.1	1009.9	973.0	949.7	967.2	805.8	182.7
20°	1492.1	1485.3	1454.2	1398.7	1340.4	1249.1	1135.3	1044.0	974.9	757.2	109.8
21°	1611.6	1607.7	1574.7	1523.2	1457.1	1346.3	1229.6	1119.8	990.5	736.8	86.5
22°	1734.1	1719.5	1693.3	1635.9	1566.9	1456.1	1325.8	1204.3	1021.6	710.6	66.1
23°	1812.8	1804.1	1775.9	1730.2	1664.1	1556.2	1423.0	1290.9	1051.7	681.4	49.6
24°	1853.7	1850.7	1828.4	1796.3	1739.9	1630.1	1503.7	1367.6	1077.0	647.4	36.0
25°	1876.0	1866.3	1852.7	1829.4	1786.6	1691.3	1578.6	1434.7	1095.5	613.4	25.3
26°	1889.6	1883.8	1862.4	1842.0	1801.2	1723.4	1627.2	1475.5	1100.3	571.6	17.5
27°	1905.2	1891.6	1871.2	1846.9	1801.2	1733.1	1645.6	1493.0	1094.5	528.8	11.7
28°	1921.7	1912.0	1883.8	1852.7	1798.3	1733.1	1638.8	1469.7	1077.0	488.0	6.8
29°	1953.8	1941.1	1906.1	1860.5	1799.2	1731.2	1612.6	1421.1	1053.7	442.3	3.9
30°	2012.1	1985.9	1943.1	1878.9	1806.0	1727.3	1568.9	1348.2	1035.2	390.8	1.0
31°	2057.8	2043.2	1993.6	1913.0	1825.5	1716.6	1517.3	1276.3	1022.6	346.0	0.0
32°	2070.4	2059.7	2023.8	1947.9	1858.5	1707.9	1459.0	1206.3	1012.9	296.5	0.0
33°	2055.8	2049.0	2011.1	1942.1	1867.3	1696.2	1391.9	1137.3	1002.2	251.8	0.0
34°	2028.6	2019.9	1986.8	1916.8	1844.9	1645.6	1327.8	1084.8	986.6	210.0	0.0
35°	1991.7	1984.9	1950.9	1881.8	1804.1	1566.9	1263.6	1049.8	964.3	168.2	0.0
36°	1951.8	1949.9	1906.1	1838.1	1751.6	1491.1	1185.9	1023.5	941.9	133.2	0.0
37°	1925.6	1915.9	1868.2	1801.2	1689.4	1402.6	1123.7	1014.8	910.8	103.0	0.0
38°	1878.0	1879.9	1825.5	1764.2	1626.2	1325.8	1073.1	1008.0	875.8	74.8	0.0
39°	1821.6	1822.6	1766.2	1713.7	1551.4	1245.2	1031.3	1001.2	832.1	47.6	0.0
40°	1776.9	1775.9	1711.7	1655.4	1470.7	1169.4	1009.0	991.5	783.5	27.2	0.0
42.5°	1444.4	1450.3	1458.0	1481.4	1281.1	1036.2	987.6	937.0	645.4	0.0	0.0
45°	941.9	964.3	970.1	1040.1	1039.1	981.7	937.0	839.8	477.3	0.0	0.0
47.5°	896.2	903.0	915.7	942.9	957.4	929.3	837.9	701.8	260.5	0.0	0.0
50°	913.7	912.7	915.7	915.7	889.4	816.5	687.2	518.1	49.6	0.0	0.0
52.5°	656.1	680.4	706.7	718.3	684.3	607.5	501.6	304.2	0.0	0.0	0.0
55°	232.3	224.5	218.7	239.1	234.3	263.4	217.7	71.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	3.9	8.7	11.7	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	1.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9



TEST NUMBER: P1309290

CATALOG NUMBER: LDSQA3D13R509030DE010 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	1.0	1.0	1.0	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	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: P1309290
 CATALOG NUMBER: LDSQA3D13R509030DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	615.3	615.3	615.3	615.3
2.5°	492.8	378.1	306.2	311.0
5°	346.0	175.0	107.9	87.5
7.5°	207.0	53.5	10.7	8.7
10°	97.2	8.7	9.7	11.7
12.5°	29.2	7.8	10.7	9.7
15°	7.8	8.7	4.9	2.9
17.5°	2.9	3.9	0.0	0.0
20°	1.9	0.0	0.0	0.0
21°	1.9	0.0	0.0	0.0
22°	1.0	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°	1.0	0.0	0.0	0.0
67.5°	1.0	0.0	0.0	0.0
70°	1.0	0.0	0.0	0.0
72.5°	1.0	0.0	0.0	0.0
75°	1.0	0.0	0.0	0.0
77.5°	1.0	0.0	0.0	0.0
80°	1.0	1.0	0.0	0.0



TEST NUMBER: P1309290
CATALOG NUMBER: LDSQA3D13R509030DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.0	1.0	0.0	0.0
85°	1.0	1.0	0.0	0.0
87.5°	1.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)