

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: P1316044

Luminaire Tested: LDSQA3D02R159740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R159740DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

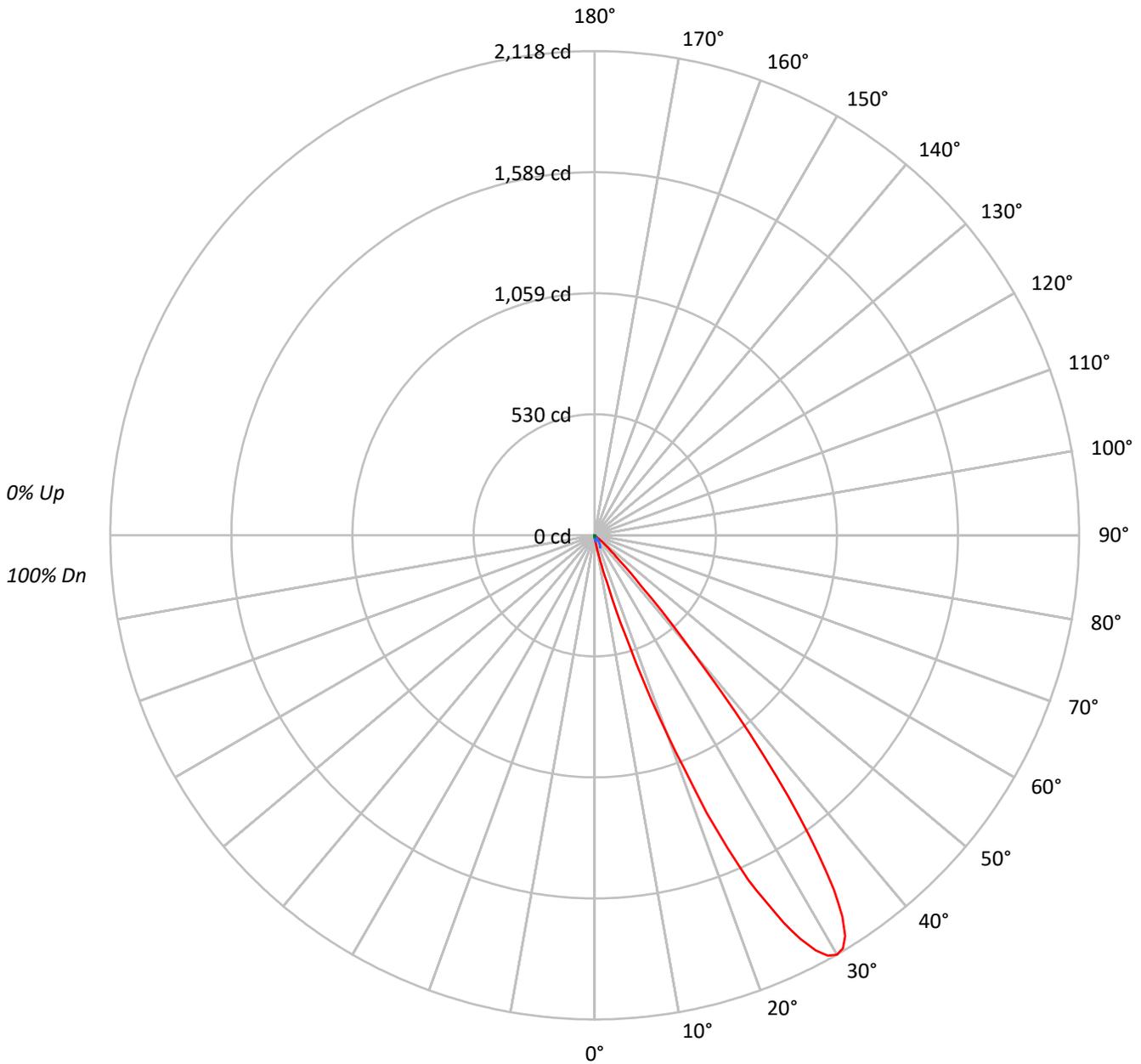
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 224.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1316044
CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot



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



TEST NUMBER: P1316044

CATALOG NUMBER: LDSQA3D02R159740DE010 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	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92				92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61				61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55				55
7	76	65	58	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50				50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41				41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1378	1378	1378	1378	1378
5°	3994	3008	1176	484	328
10°	10388	4494	787	0	0
15°	41490	7346	428	0	0
20°	169530	10832	128	0	0
25°	335112	10737	0	0	0
30°	421197	8472	0	0	0
35°	359393	5193	0	0	0
40°	147954	1641	0	0	0
45°	32004	682	0	0	0
50°	4099	0	0	0	0
55°	360	0	60	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	101	352	0	0
75°	0	133	466	0	0
80°	0	198	694	0	0
85°	0	395	1383	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 33514 cd/sqm



TEST NUMBER: P1316044

CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	15.7	7.0
20°-30°	91.5	40.9
30°-40°	98.1	43.8
40°-50°	16.6	7.4
50°-60°	0.5	0.2
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	108.3	48.3
0°-40°	206.4	92.1
0°-60°	223.4	99.8
0°-90°	224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	224.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	23	17	7	3	2	3
15°	233	41	2	0	0	108
25°	1764	56	0	0	0	798
35°	1709	25	0	0	0	982
45°	131	3	0	0	0	155
55°	1	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1316044

CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	14.6	14.8	15.1	15.1	15.1	15.1	14.8	14.8	14.8	14.8	14.6
5°	23.1	23.1	23.1	23.1	23.1	23.1	22.8	22.8	22.8	22.8	22.8
7.5°	33.0	32.5	32.7	32.0	32.5	32.3	32.0	32.5	32.5	31.3	31.3
10°	59.4	59.1	56.8	57.2	57.7	57.5	57.5	56.1	55.8	54.9	53.9
12.5°	114.5	117.1	119.0	119.0	114.5	116.1	113.1	113.8	114.2	112.8	107.9
15°	232.7	237.0	232.5	236.7	235.1	229.0	222.1	212.9	216.5	210.1	208.0
17.5°	509.7	519.4	515.4	495.8	502.2	487.1	477.7	474.2	464.3	434.8	422.6
20°	925.0	936.8	925.7	902.9	910.2	881.7	874.4	867.5	823.7	807.7	756.3
21°	1099.8	1109.4	1113.7	1089.9	1075.3	1052.7	1033.8	1027.7	1001.1	970.2	917.5
22°	1310.8	1299.5	1274.1	1277.4	1255.7	1237.1	1211.0	1186.2	1156.5	1113.4	1069.9
23°	1485.6	1472.4	1460.4	1445.8	1422.5	1409.3	1371.8	1344.7	1306.1	1259.9	1218.0
24°	1648.4	1628.1	1620.6	1594.7	1588.1	1558.4	1528.0	1492.7	1446.0	1396.8	1350.4
25°	1763.5	1766.6	1760.0	1757.0	1723.3	1692.9	1662.7	1608.3	1568.5	1524.9	1453.6
26°	1887.0	1888.4	1885.1	1862.5	1832.1	1802.4	1763.5	1716.2	1658.5	1610.2	1545.7
27°	1981.4	1975.8	1971.1	1944.2	1919.2	1881.8	1846.5	1790.4	1734.1	1676.6	1601.7
28°	2056.8	2046.2	2040.3	2017.2	1988.0	1942.1	1898.8	1846.5	1790.2	1728.5	1647.4
29°	2102.3	2091.0	2084.4	2058.9	2025.2	1985.0	1941.2	1883.7	1823.1	1754.4	1672.9
30°	2118.0	2111.5	2101.1	2074.7	2039.8	1997.9	1952.9	1890.5	1827.1	1756.7	1670.5
31°	2107.7	2099.2	2089.3	2060.8	2023.1	1983.1	1930.8	1865.3	1798.6	1731.5	1640.1
32°	2066.5	2061.3	2049.3	2011.1	1980.5	1928.7	1877.1	1815.8	1743.1	1671.0	1588.3
33°	1989.2	1980.7	1970.4	1935.5	1896.4	1846.7	1795.3	1732.7	1660.4	1584.3	1493.4
34°	1871.4	1860.6	1847.6	1824.3	1774.4	1731.3	1671.9	1598.7	1538.8	1465.8	1383.6
35°	1709.4	1693.6	1678.0	1660.4	1604.3	1564.5	1524.5	1460.6	1402.9	1334.1	1241.1
36°	1527.5	1521.4	1508.7	1462.0	1443.9	1389.7	1357.5	1284.2	1237.6	1170.2	1093.4
37°	1321.9	1285.9	1304.2	1278.1	1223.4	1206.5	1168.1	1105.2	1054.8	983.6	928.1
38°	1101.4	1077.9	1090.8	1064.4	1035.9	996.8	967.6	921.7	865.2	809.3	756.6
39°	872.9	853.9	868.0	850.1	806.8	790.5	764.6	729.5	684.0	640.5	590.5
40°	658.1	633.6	652.5	627.0	607.2	580.6	567.4	535.2	506.9	480.8	449.0
42.5°	300.6	298.0	293.7	284.5	282.4	282.7	266.4	255.8	241.4	224.7	214.6
45°	131.4	134.7	137.6	132.4	132.1	129.3	128.4	121.3	118.5	113.1	106.5
47.5°	64.8	66.0	65.2	66.7	65.5	63.6	63.1	62.2	59.4	59.1	56.1
50°	15.3	15.1	15.1	15.3	15.1	15.1	14.8	14.4	14.1	14.4	13.7
52.5°	4.9	5.2	4.9	4.7	4.9	5.2	4.9	4.9	4.9	4.9	4.9
55°	1.2	1.2	1.2	1.2	1.2	1.2	0.9	0.9	1.2	1.2	1.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1316044

CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1316044

CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
2.5°	14.4	12.2	10.1	8.0	5.9	4.7	4.5	4.2
5°	21.7	17.4	11.5	6.8	4.0	2.8	2.1	1.9
7.5°	29.2	21.7	12.7	5.7	2.8	1.2	0.5	0.2
10°	41.9	25.7	13.2	4.5	1.4	0.0	0.0	0.0
12.5°	82.2	29.4	13.0	3.5	0.2	0.0	0.0	0.0
15°	136.6	41.2	12.0	2.4	0.0	0.0	0.0	0.0
17.5°	223.8	53.2	10.4	1.6	0.0	0.0	0.0	0.0
20°	347.0	59.1	8.0	0.7	0.0	0.0	0.0	0.0
21°	406.8	59.6	7.1	0.5	0.0	0.0	0.0	0.0
22°	458.6	59.6	6.1	0.2	0.0	0.0	0.0	0.0
23°	506.7	58.9	5.4	0.0	0.0	0.0	0.0	0.0
24°	546.2	57.9	4.9	0.0	0.0	0.0	0.0	0.0
25°	575.9	56.5	4.5	0.0	0.0	0.0	0.0	0.0
26°	589.6	54.6	3.8	0.0	0.0	0.0	0.0	0.0
27°	596.4	52.1	3.3	0.0	0.0	0.0	0.0	0.0
28°	591.7	49.2	2.8	0.0	0.0	0.0	0.0	0.0
29°	579.9	46.2	2.1	0.0	0.0	0.0	0.0	0.0
30°	564.6	42.6	1.6	0.0	0.0	0.0	0.0	0.0
31°	542.2	39.1	1.2	0.0	0.0	0.0	0.0	0.0
32°	511.6	35.6	0.9	0.0	0.0	0.0	0.0	0.0
33°	470.6	31.8	0.5	0.0	0.0	0.0	0.0	0.0
34°	420.0	28.0	0.2	0.0	0.0	0.0	0.0	0.0
35°	363.2	24.7	0.0	0.0	0.0	0.0	0.0	0.0
36°	314.5	21.2	0.0	0.0	0.0	0.0	0.0	0.0
37°	265.5	17.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	222.4	13.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	184.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0
40°	152.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	84.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	51.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	29.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.5	0.5	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.5	0.7	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0



TEST NUMBER: P1316044

CATALOG NUMBER: LDSQA3D02R159740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)