

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: P1308502

Luminaire Tested: LDSQA3D20R659027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308502
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R659027D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

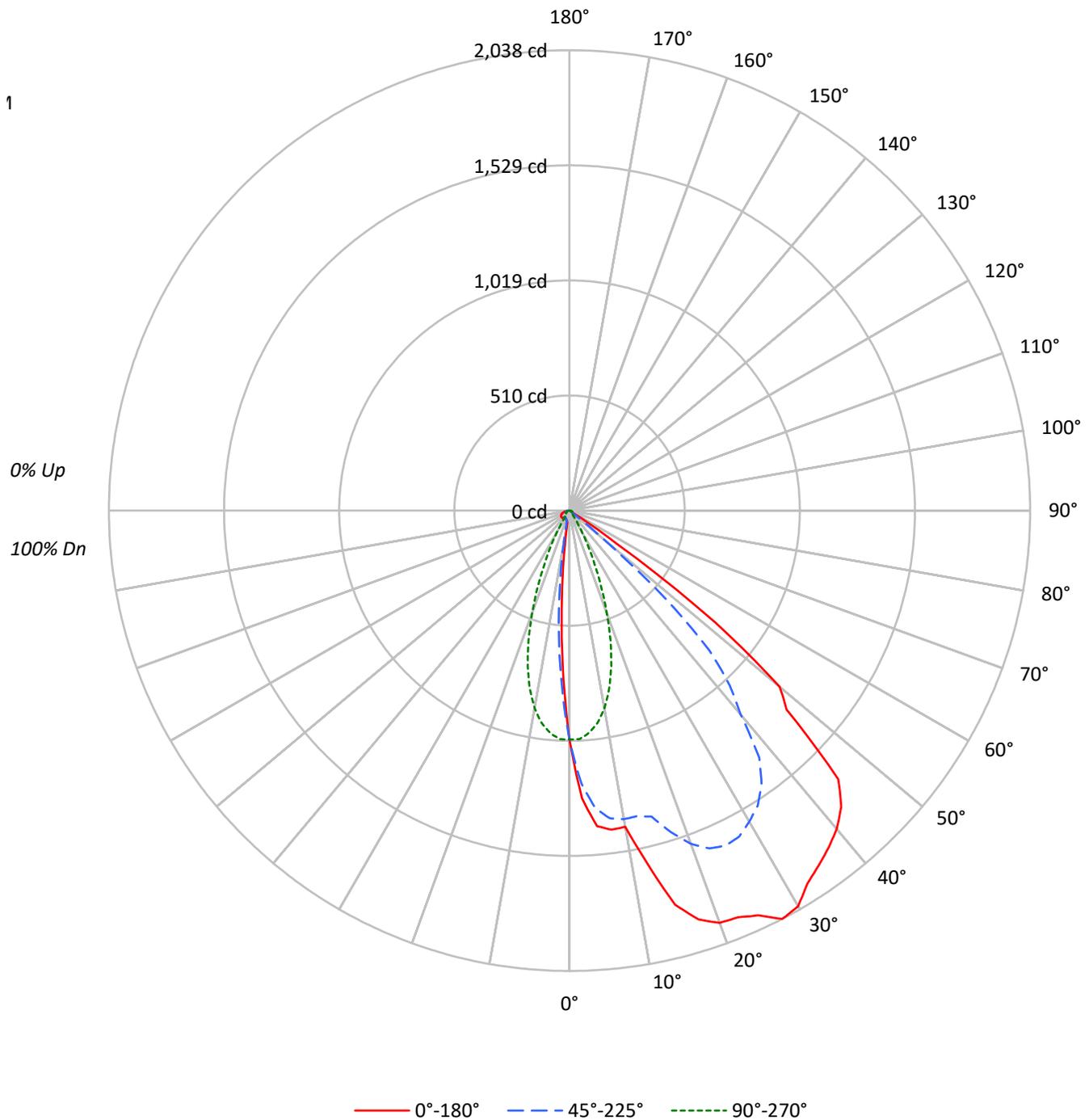
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.0 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
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

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Luminous Intensity Polar Plot





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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	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	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	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	174427	174427	174427	174427	174427
5°	242448	228807	170719	93822	66006
10°	248556	242488	155310	26214	9653
15°	322042	250045	127126	8433	8148
20°	355903	287669	88467	7514	7808
25°	375607	310865	50053	7202	7791
30°	402186	316216	22591	7219	8153
35°	403628	311436	7296	7632	8956
40°	413535	264569	4969	8161	9937
45°	409570	213236	4993	8841	10765
50°	325027	50291	5064	9726	12244
55°	77197	2852	5225	10899	13722
60°	2721	3272	5993	11401	14673
65°	3219	3219	5787	12225	16056
70°	2367	3172	5539	11934	16667
75°	2129	3127	5257	12576	16769
80°	1587	3174	6248	12497	17257
85°	3162	6323	6323	12449	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 410349 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	5.6
10°-20°	222.6	14.7
20°-30°	349.6	23.0
30°-40°	400.0	26.3
40°-50°	321.5	21.2
50°-60°	104.6	6.9
60°-70°	18.6	1.2
70°-80°	12.3	0.8
80°-90°	4.4	0.3
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°	656.7	43.3
0°-40°	1056.7	69.6
0°-60°	1482.8	97.7
0°-90°	1518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1013	1013	1013	1013	1013	
5°	1402	1324	988	543	382	132
15°	1806	1402	713	47	46	503
25°	1977	1636	263	38	41	921
35°	1920	1481	35	36	43	1206
45°	1682	876	20	36	44	1210
55°	257	10	17	36	46	368
65°	8	8	14	30	39	7
75°	3	5	8	19	25	4
85°	2	3	3	6	8	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8
2.5°	1274.6	1269.9	1276.2	1265.2	1263.6	1252.5	1246.2	1243.1	1228.9	1210.0	1192.6
5°	1402.4	1383.5	1388.2	1386.6	1378.7	1374.0	1367.7	1359.8	1340.9	1323.5	1301.4
7.5°	1424.5	1408.7	1411.9	1413.4	1408.7	1407.1	1405.6	1402.4	1389.8	1374.0	1355.1
10°	1421.3	1405.6	1404.0	1399.3	1394.5	1396.1	1396.1	1396.1	1392.9	1386.6	1380.3
12.5°	1604.3	1582.2	1577.5	1544.4	1514.4	1462.4	1429.2	1397.7	1383.5	1385.1	1380.3
15°	1806.2	1804.7	1788.9	1757.3	1706.9	1659.5	1583.8	1527.0	1454.5	1402.4	1380.3
17.5°	1897.7	1896.2	1882.0	1855.2	1818.9	1774.7	1719.5	1653.2	1572.8	1492.3	1426.1
20°	1941.9	1953.0	1937.2	1915.1	1880.4	1839.4	1787.3	1727.4	1651.7	1569.6	1490.7
22.5°	1948.2	1962.4	1948.2	1932.5	1907.2	1880.4	1836.2	1774.7	1697.4	1618.5	1541.2
25°	1976.6	1981.4	1951.4	1930.9	1907.2	1888.3	1853.6	1799.9	1721.1	1635.9	1560.2
27.5°	2038.1	2017.6	1954.5	1926.1	1904.1	1886.7	1853.6	1798.4	1713.2	1626.4	1547.5
30°	2022.4	2014.5	1959.3	1932.5	1913.5	1896.2	1855.2	1784.2	1681.6	1590.1	1508.1
32.5°	1957.7	1973.5	1954.5	1945.1	1935.6	1913.5	1853.6	1757.3	1642.2	1549.1	1438.7
35°	1919.8	1938.8	1940.3	1940.3	1929.3	1896.2	1825.2	1717.9	1602.8	1481.3	1333.0
37.5°	1882.0	1897.7	1907.2	1913.5	1897.7	1850.4	1760.5	1664.3	1538.1	1378.7	1118.5
40°	1839.4	1850.4	1858.3	1861.5	1837.8	1776.3	1694.2	1585.4	1443.4	1176.8	998.6
42.5°	1779.4	1785.7	1784.2	1782.6	1757.3	1689.5	1612.2	1498.6	1217.8	1049.0	832.9
45°	1681.6	1675.3	1684.8	1684.8	1651.7	1601.2	1498.6	1277.8	1090.1	875.5	536.4
47.5°	1303.0	1307.8	1353.5	1427.6	1473.4	1459.2	1320.4	1118.5	916.5	574.2	178.3
50°	1213.1	1208.4	1210.0	1217.8	1222.6	1183.1	1083.7	944.9	605.8	187.7	12.6
52.5°	814.0	818.7	855.0	938.6	965.4	937.0	842.4	631.0	220.9	12.6	11.0
55°	257.1	274.5	295.0	339.2	416.5	465.4	455.9	224.0	14.2	9.5	11.0
57.5°	9.5	9.5	12.6	22.1	42.6	69.4	72.6	14.2	11.0	11.0	11.0
60°	7.9	7.9	7.9	7.9	7.9	7.9	9.5	9.5	9.5	9.5	9.5
62.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.5	9.5	9.5	9.5
65°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.5
67.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	7.9	7.9	7.9
70°	4.7	4.7	4.7	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	6.3	6.3
75°	3.2	3.2	3.2	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7	4.7
80°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8	1012.8
2.5°	1183.1	1164.2	1126.3	1012.8	894.4	776.1	702.0	683.1
5°	1276.2	1254.1	1200.5	987.5	747.7	542.7	425.9	381.8
7.5°	1333.0	1306.2	1243.1	948.1	582.1	315.5	189.3	151.4
10°	1358.2	1334.6	1263.6	888.1	421.2	149.9	66.3	55.2
12.5°	1369.3	1350.3	1271.5	809.3	274.5	66.3	48.9	47.3
15°	1374.0	1353.5	1268.3	713.0	156.2	47.3	45.7	45.7
17.5°	1378.7	1355.1	1249.4	602.6	86.8	44.2	42.6	44.2
20°	1416.6	1348.8	1216.3	482.7	56.8	41.0	41.0	42.6
22.5°	1454.5	1347.2	1157.9	369.1	44.2	39.4	41.0	41.0
25°	1467.1	1331.4	1083.7	263.4	37.9	37.9	39.4	41.0
27.5°	1443.4	1285.7	984.4	178.3	33.1	37.9	39.4	41.0
30°	1388.2	1208.4	864.5	113.6	31.6	36.3	39.4	41.0
32.5°	1285.7	1055.4	730.4	67.8	30.0	36.3	41.0	41.0
35°	1080.6	885.0	578.9	34.7	30.0	36.3	41.0	42.6
37.5°	944.9	738.3	403.8	23.7	30.0	36.3	41.0	42.6
40°	784.0	533.2	168.8	22.1	30.0	36.3	41.0	44.2
42.5°	542.7	231.9	26.8	20.5	28.4	36.3	42.6	44.2
45°	195.6	30.0	12.6	20.5	28.4	36.3	42.6	44.2
47.5°	17.4	11.0	12.6	20.5	28.4	36.3	42.6	45.7
50°	11.0	11.0	11.0	18.9	28.4	36.3	42.6	45.7
52.5°	11.0	11.0	11.0	18.9	26.8	36.3	44.2	45.7
55°	11.0	11.0	11.0	17.4	26.8	36.3	42.6	45.7
57.5°	11.0	11.0	12.6	17.4	26.8	34.7	42.6	44.2
60°	11.0	11.0	11.0	17.4	25.2	33.1	41.0	42.6
62.5°	9.5	11.0	11.0	15.8	23.7	31.6	39.4	41.0
65°	9.5	9.5	11.0	14.2	22.1	30.0	36.3	39.4
67.5°	7.9	9.5	9.5	12.6	18.9	26.8	33.1	36.3
70°	7.9	7.9	7.9	11.0	17.4	23.7	31.6	33.1
72.5°	6.3	7.9	7.9	9.5	14.2	20.5	26.8	30.0
75°	6.3	6.3	6.3	7.9	12.6	18.9	23.7	25.2
77.5°	4.7	4.7	6.3	6.3	11.0	14.2	20.5	22.1
80°	4.7	4.7	4.7	6.3	7.9	12.6	15.8	17.4
82.5°	3.2	3.2	3.2	4.7	6.3	7.9	11.0	12.6
85°	3.2	3.2	3.2	3.2	4.7	6.3	7.9	7.9
87.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)