

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: P1320471

Luminaire Tested: LDSQA3D20R659840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320471
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: LDSQA3D20R659840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

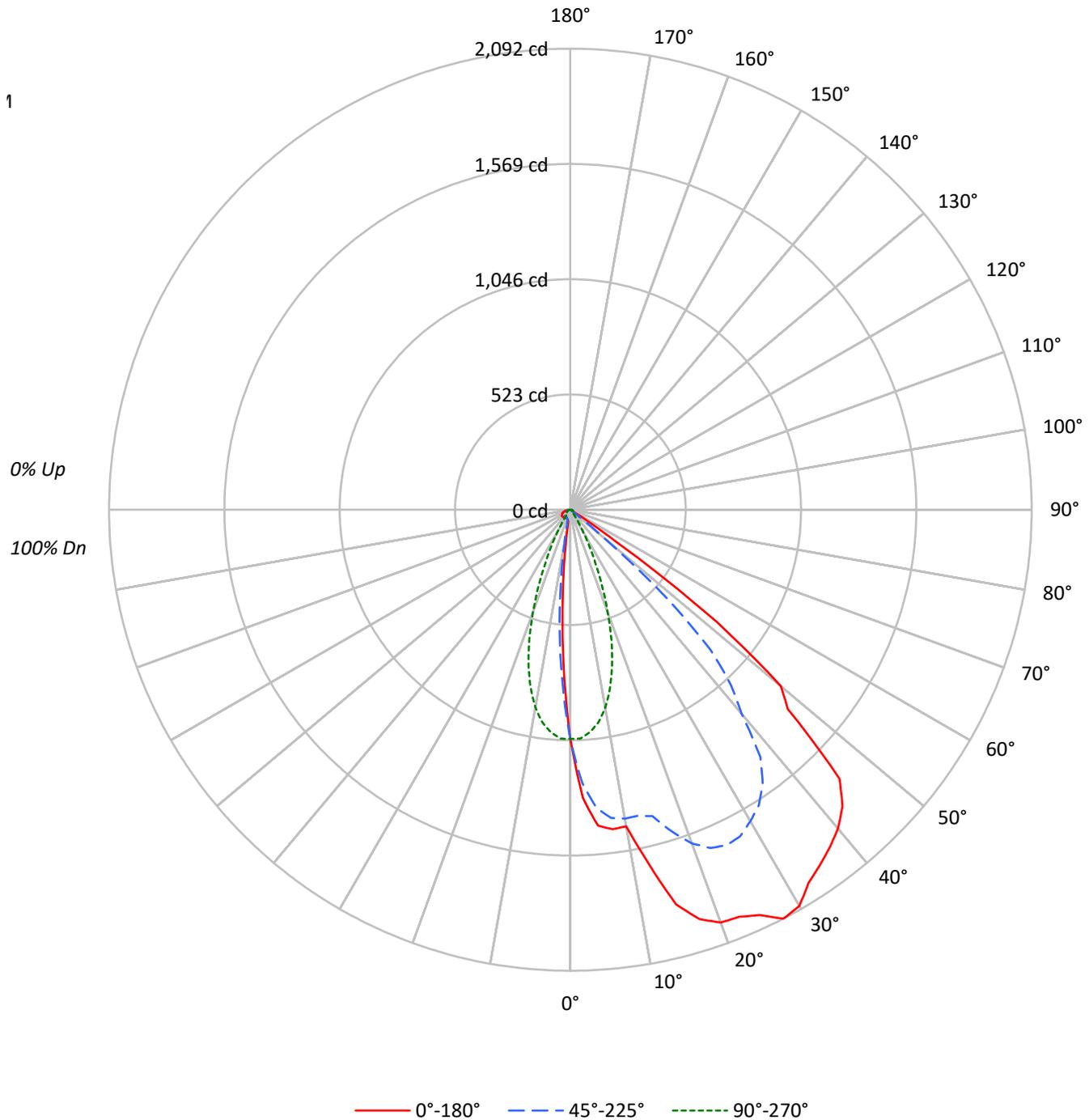
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1558.0 lumens
Efficiency: N/A
Efficacy: 56.9 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): 27.4
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	110	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°	179008	179008	179008	179008	179008
5°	248844	234841	175214	96294	67735
10°	255114	248888	159403	26896	9916
15°	330529	256642	130478	8665	8380
20°	365286	295257	90795	7716	8009
25°	385507	319055	51383	7392	8000
30°	412785	324549	23188	7398	8372
35°	414267	319636	7485	7821	9188
40°	424416	271538	5103	8363	10184
45°	420360	218863	5115	9060	11033
50°	333601	51630	5198	9967	12593
55°	79239	2913	5345	11170	14112
60°	2790	3341	6131	11711	15052
65°	3301	3301	5950	12551	16504
70°	2467	3273	5690	12236	17121
75°	2129	3261	5390	12909	17234
80°	1587	3174	6447	12893	17654
85°	3162	6323	6323	12844	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 421163 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	5.6
10°-20°	228.4	14.7
20°-30°	358.8	23.0
30°-40°	410.5	26.3
40°-50°	330.0	21.2
50°-60°	107.3	6.9
60°-70°	19.1	1.2
70°-80°	12.6	0.8
80°-90°	4.5	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°	674.0	43.3
0°-40°	1084.5	69.6
0°-60°	1521.8	97.7
0°-90°	1558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1558.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1039	1039	1039	1039	1039	
5°	1439	1358	1014	557	392	136
15°	1854	1439	732	49	47	517
25°	2029	1679	270	39	42	945
35°	1970	1520	36	37	44	1237
45°	1726	899	21	37	45	1242
55°	264	10	18	37	47	377
65°	8	8	15	31	40	7
75°	3	5	8	19	26	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°	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	1308.2	1303.4	1309.8	1298.5	1296.9	1285.5	1279.1	1275.8	1261.3	1241.8	1224.0
5°	1439.4	1419.9	1424.8	1423.2	1415.1	1410.2	1403.7	1395.6	1376.2	1358.4	1335.7
7.5°	1462.0	1445.8	1449.1	1450.7	1445.8	1444.2	1442.6	1439.4	1426.4	1410.2	1390.8
10°	1458.8	1442.6	1441.0	1436.1	1431.3	1432.9	1432.9	1432.9	1429.6	1423.2	1416.7
12.5°	1646.6	1623.9	1619.1	1585.1	1554.3	1500.9	1466.9	1434.5	1419.9	1421.6	1416.7
15°	1853.8	1852.2	1836.0	1803.7	1751.8	1703.3	1625.6	1567.3	1492.8	1439.4	1416.7
17.5°	1947.8	1946.1	1931.6	1904.0	1866.8	1821.5	1764.8	1696.8	1614.2	1531.6	1463.6
20°	1993.1	2004.4	1988.2	1965.6	1929.9	1887.8	1834.4	1772.9	1695.2	1611.0	1530.0
22.5°	1999.6	2014.1	1999.6	1983.4	1957.5	1929.9	1884.6	1821.5	1742.1	1661.2	1581.8
25°	2028.7	2033.6	2002.8	1981.8	1957.5	1938.0	1902.4	1847.4	1766.4	1679.0	1601.3
27.5°	2091.8	2070.8	2006.0	1976.9	1954.2	1936.4	1902.4	1845.7	1758.3	1669.3	1588.3
30°	2075.7	2067.6	2010.9	1983.4	1963.9	1946.1	1904.0	1831.2	1725.9	1632.0	1547.8
32.5°	2009.3	2025.5	2006.0	1996.3	1986.6	1963.9	1902.4	1803.7	1685.5	1589.9	1476.6
35°	1970.4	1989.8	1991.5	1991.5	1980.1	1946.1	1873.3	1763.2	1645.0	1520.3	1368.1
37.5°	1931.6	1947.8	1957.5	1963.9	1947.8	1899.2	1806.9	1708.1	1578.6	1415.1	1147.9
40°	1887.8	1899.2	1907.3	1910.5	1886.2	1823.1	1738.9	1627.2	1481.5	1207.8	1024.9
42.5°	1826.3	1832.8	1831.2	1829.6	1803.7	1734.0	1654.7	1538.1	1249.9	1076.7	854.9
45°	1725.9	1719.5	1729.2	1729.2	1695.2	1643.4	1538.1	1311.5	1118.8	898.6	550.5
47.5°	1337.4	1342.2	1389.2	1465.3	1512.2	1497.6	1355.2	1147.9	940.7	589.3	183.0
50°	1245.1	1240.2	1241.8	1249.9	1254.8	1214.3	1112.3	969.8	621.7	192.7	13.0
52.5°	835.4	840.3	877.5	963.4	990.9	961.7	864.6	647.6	226.7	13.0	11.3
55°	263.9	281.7	302.8	348.1	427.4	477.6	467.9	229.9	14.6	9.7	11.3
57.5°	9.7	9.7	13.0	22.7	43.7	71.2	74.5	14.6	11.3	11.3	11.3
60°	8.1	8.1	8.1	8.1	8.1	8.1	9.7	9.7	9.7	9.7	9.7
62.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.7	9.7	9.7	9.7
65°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.7
67.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.1	8.1	8.1	8.1
70°	4.9	4.9	4.9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.1
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	6.5	6.5
75°	3.2	3.2	3.2	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9
80°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9
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°	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	1214.3	1194.9	1156.0	1039.4	918.0	796.6	720.5	701.1
5°	1309.8	1287.2	1232.1	1013.5	767.4	557.0	437.2	391.8
7.5°	1368.1	1340.6	1275.8	973.1	597.4	323.8	194.3	155.4
10°	1394.0	1369.7	1296.9	911.5	432.3	153.8	68.0	56.7
12.5°	1405.4	1385.9	1305.0	830.6	281.7	68.0	50.2	48.6
15°	1410.2	1389.2	1301.7	731.8	160.3	48.6	47.0	47.0
17.5°	1415.1	1390.8	1282.3	618.5	89.0	45.3	43.7	45.3
20°	1453.9	1384.3	1248.3	495.4	58.3	42.1	42.1	43.7
22.5°	1492.8	1382.7	1188.4	378.9	45.3	40.5	42.1	42.1
25°	1505.7	1366.5	1112.3	270.4	38.9	38.9	40.5	42.1
27.5°	1481.5	1319.5	1010.3	183.0	34.0	38.9	40.5	42.1
30°	1424.8	1240.2	887.3	116.6	32.4	37.2	40.5	42.1
32.5°	1319.5	1083.2	749.6	69.6	30.8	37.2	42.1	42.1
35°	1109.1	908.3	594.2	35.6	30.8	37.2	42.1	43.7
37.5°	969.8	757.7	414.5	24.3	30.8	37.2	42.1	43.7
40°	804.7	547.2	173.2	22.7	30.8	37.2	42.1	45.3
42.5°	557.0	238.0	27.5	21.0	29.1	37.2	43.7	45.3
45°	200.8	30.8	13.0	21.0	29.1	37.2	43.7	45.3
47.5°	17.8	11.3	13.0	21.0	29.1	37.2	43.7	47.0
50°	11.3	11.3	11.3	19.4	29.1	37.2	43.7	47.0
52.5°	11.3	11.3	11.3	19.4	27.5	37.2	45.3	47.0
55°	11.3	11.3	11.3	17.8	27.5	37.2	43.7	47.0
57.5°	11.3	11.3	13.0	17.8	27.5	35.6	43.7	45.3
60°	11.3	11.3	11.3	17.8	25.9	34.0	42.1	43.7
62.5°	9.7	11.3	11.3	16.2	24.3	32.4	40.5	42.1
65°	9.7	9.7	11.3	14.6	22.7	30.8	37.2	40.5
67.5°	8.1	9.7	9.7	13.0	19.4	27.5	34.0	37.2
70°	8.1	8.1	8.1	11.3	17.8	24.3	32.4	34.0
72.5°	6.5	8.1	8.1	9.7	14.6	21.0	27.5	30.8
75°	6.5	6.5	6.5	8.1	13.0	19.4	24.3	25.9
77.5°	4.9	4.9	6.5	6.5	11.3	14.6	21.0	22.7
80°	4.9	4.9	4.9	6.5	8.1	13.0	16.2	17.8
82.5°	3.2	3.2	3.2	4.9	6.5	8.1	11.3	13.0
85°	3.2	3.2	3.2	3.2	4.9	6.5	8.1	8.1
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)