

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: P1316967

Luminaire Tested: LDSQA3D20R659740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316967  
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: LDSQA3D20R659740D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

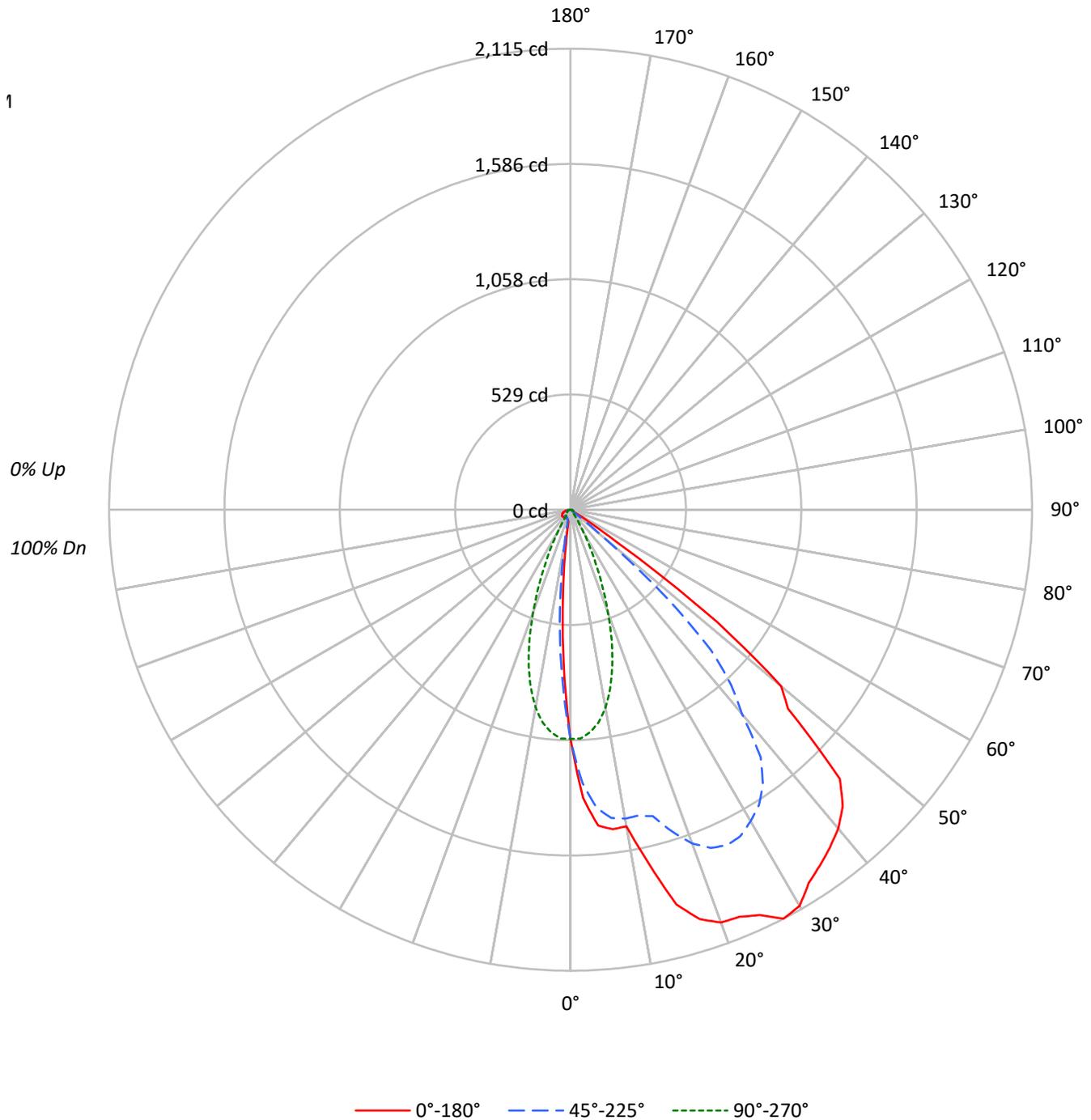
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1575.0 lumens  
Efficiency: N/A  
Efficacy: 54.7 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 (A<sub>in</sub>): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	180972	180972	180972	180972	180972
5°	251558	237400	177133	97332	68478
10°	257895	251599	161151	27194	10021
15°	334148	259441	131905	8754	8469
20°	369263	298482	91784	7808	8101
25°	389707	322532	51934	7468	8095
30°	417280	328088	23426	7477	8472
35°	418787	323126	7569	7905	9293
40°	429048	274506	5148	8453	10297
45°	424963	221250	5188	9158	11155
50°	337245	52193	5251	10074	12727
55°	80110	2943	5405	11290	14262
60°	2824	3376	6200	11849	15224
65°	3342	3342	5990	12674	16667
70°	2467	3273	5791	12387	17322
75°	2196	3261	5456	13042	17434
80°	1587	3273	6447	12992	17852
85°	3162	6521	6521	12844	16203

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 425742 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.7	5.6
10°-20°	230.9	14.7
20°-30°	362.8	23.0
30°-40°	415.0	26.3
40°-50°	333.6	21.2
50°-60°	108.5	6.9
60°-70°	19.3	1.2
70°-80°	12.7	0.8
80°-90°	4.6	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°	681.4	43.3
0°-40°	1096.4	69.6
0°-60°	1538.4	97.7
0°-90°	1575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1575.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1051	1051	1051	1051	1051	
5°	1455	1373	1025	563	396	137
15°	1874	1455	740	49	48	522
25°	2051	1697	273	39	43	956
35°	1992	1537	36	38	44	1251
45°	1745	908	21	38	46	1255
55°	267	10	18	38	48	381
65°	8	8	15	31	41	7
75°	3	5	8	20	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°	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8
2.5°	1322.5	1317.6	1324.1	1312.7	1311.0	1299.6	1293.0	1289.8	1275.0	1255.4	1237.4
5°	1455.1	1435.4	1440.3	1438.7	1430.5	1425.6	1419.1	1410.9	1391.2	1373.2	1350.3
7.5°	1478.0	1461.6	1464.9	1466.5	1461.6	1460.0	1458.3	1455.1	1442.0	1425.6	1406.0
10°	1474.7	1458.3	1456.7	1451.8	1446.9	1448.5	1448.5	1448.5	1445.2	1438.7	1432.2
12.5°	1664.6	1641.7	1636.7	1602.4	1571.3	1517.3	1482.9	1450.2	1435.4	1437.1	1432.2
15°	1874.1	1872.4	1856.1	1823.3	1771.0	1721.9	1643.3	1584.4	1509.1	1455.1	1432.2
17.5°	1969.0	1967.4	1952.6	1924.8	1887.2	1841.3	1784.1	1715.3	1631.8	1548.4	1479.6
20°	2014.8	2026.3	2009.9	1987.0	1951.0	1908.4	1854.4	1792.2	1713.7	1628.6	1546.7
22.5°	2021.4	2036.1	2021.4	2005.0	1978.8	1951.0	1905.2	1841.3	1761.1	1679.3	1599.1
25°	2050.8	2055.8	2024.7	2003.4	1978.8	1959.2	1923.2	1867.5	1785.7	1697.3	1618.7
27.5°	2114.7	2093.4	2027.9	1998.5	1975.6	1957.5	1923.2	1865.9	1777.5	1687.5	1605.6
30°	2098.3	2090.1	2032.8	2005.0	1985.4	1967.4	1924.8	1851.2	1744.8	1649.8	1564.7
32.5°	2031.2	2047.6	2027.9	2018.1	2008.3	1985.4	1923.2	1823.3	1703.9	1607.3	1492.7
35°	1991.9	2011.6	2013.2	2013.2	2001.7	1967.4	1893.7	1782.4	1662.9	1536.9	1383.0
37.5°	1952.6	1969.0	1978.8	1985.4	1969.0	1919.9	1826.6	1726.8	1595.8	1430.5	1160.5
40°	1908.4	1919.9	1928.1	1931.4	1906.8	1843.0	1757.9	1644.9	1497.6	1221.0	1036.1
42.5°	1846.2	1852.8	1851.2	1849.5	1823.3	1753.0	1672.8	1554.9	1263.6	1088.4	864.2
45°	1744.8	1738.2	1748.0	1748.0	1713.7	1661.3	1554.9	1325.8	1131.0	908.4	556.5
47.5°	1352.0	1356.9	1404.3	1481.3	1528.7	1514.0	1370.0	1160.5	950.9	595.8	185.0
50°	1258.7	1253.7	1255.4	1263.6	1268.5	1227.6	1124.4	980.4	628.5	194.8	13.1
52.5°	844.6	849.5	887.1	973.9	1001.7	972.2	874.0	654.7	229.1	13.1	11.5
55°	266.8	284.8	306.1	351.9	432.1	482.8	473.0	232.4	14.7	9.8	11.5
57.5°	9.8	9.8	13.1	22.9	44.2	72.0	75.3	14.7	11.5	11.5	11.5
60°	8.2	8.2	8.2	8.2	8.2	8.2	9.8	9.8	9.8	9.8	9.8
62.5°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.8	9.8	9.8	9.8
65°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.8
67.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.2	8.2	8.2	8.2
70°	4.9	4.9	4.9	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.2
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°	3.3	3.3	3.3	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9
80°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3
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°	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8	1050.8
2.5°	1227.6	1207.9	1168.6	1050.8	928.0	805.3	728.4	708.7
5°	1324.1	1301.2	1245.6	1024.6	775.8	563.0	441.9	396.1
7.5°	1383.0	1355.2	1289.8	983.7	604.0	327.3	196.4	157.1
10°	1409.2	1384.7	1311.0	921.5	437.0	155.5	68.7	57.3
12.5°	1420.7	1401.1	1319.2	839.7	284.8	68.7	50.7	49.1
15°	1425.6	1404.3	1315.9	739.8	162.0	49.1	47.5	47.5
17.5°	1430.5	1406.0	1296.3	625.2	90.0	45.8	44.2	45.8
20°	1469.8	1399.4	1261.9	500.8	58.9	42.6	42.6	44.2
22.5°	1509.1	1397.8	1201.4	383.0	45.8	40.9	42.6	42.6
25°	1522.2	1381.4	1124.4	273.3	39.3	39.3	40.9	42.6
27.5°	1497.6	1333.9	1021.3	185.0	34.4	39.3	40.9	42.6
30°	1440.3	1253.7	896.9	117.8	32.7	37.6	40.9	42.6
32.5°	1333.9	1095.0	757.8	70.4	31.1	37.6	42.6	42.6
35°	1121.2	918.2	600.7	36.0	31.1	37.6	42.6	44.2
37.5°	980.4	766.0	419.0	24.6	31.1	37.6	42.6	44.2
40°	813.5	553.2	175.1	22.9	31.1	37.6	42.6	45.8
42.5°	563.0	240.6	27.8	21.3	29.5	37.6	44.2	45.8
45°	203.0	31.1	13.1	21.3	29.5	37.6	44.2	45.8
47.5°	18.0	11.5	13.1	21.3	29.5	37.6	44.2	47.5
50°	11.5	11.5	11.5	19.6	29.5	37.6	44.2	47.5
52.5°	11.5	11.5	11.5	19.6	27.8	37.6	45.8	47.5
55°	11.5	11.5	11.5	18.0	27.8	37.6	44.2	47.5
57.5°	11.5	11.5	13.1	18.0	27.8	36.0	44.2	45.8
60°	11.5	11.5	11.5	18.0	26.2	34.4	42.6	44.2
62.5°	9.8	11.5	11.5	16.4	24.6	32.7	40.9	42.6
65°	9.8	9.8	11.5	14.7	22.9	31.1	37.6	40.9
67.5°	8.2	9.8	9.8	13.1	19.6	27.8	34.4	37.6
70°	8.2	8.2	8.2	11.5	18.0	24.6	32.7	34.4
72.5°	6.5	8.2	8.2	9.8	14.7	21.3	27.8	31.1
75°	6.5	6.5	6.5	8.2	13.1	19.6	24.6	26.2
77.5°	4.9	4.9	6.5	6.5	11.5	14.7	21.3	22.9
80°	4.9	4.9	4.9	6.5	8.2	13.1	16.4	18.0
82.5°	3.3	3.3	3.3	4.9	6.5	8.2	11.5	13.1
85°	3.3	3.3	3.3	3.3	4.9	6.5	8.2	8.2
87.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)