

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: P1316794

Luminaire Tested: LDSQA3D17R559740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

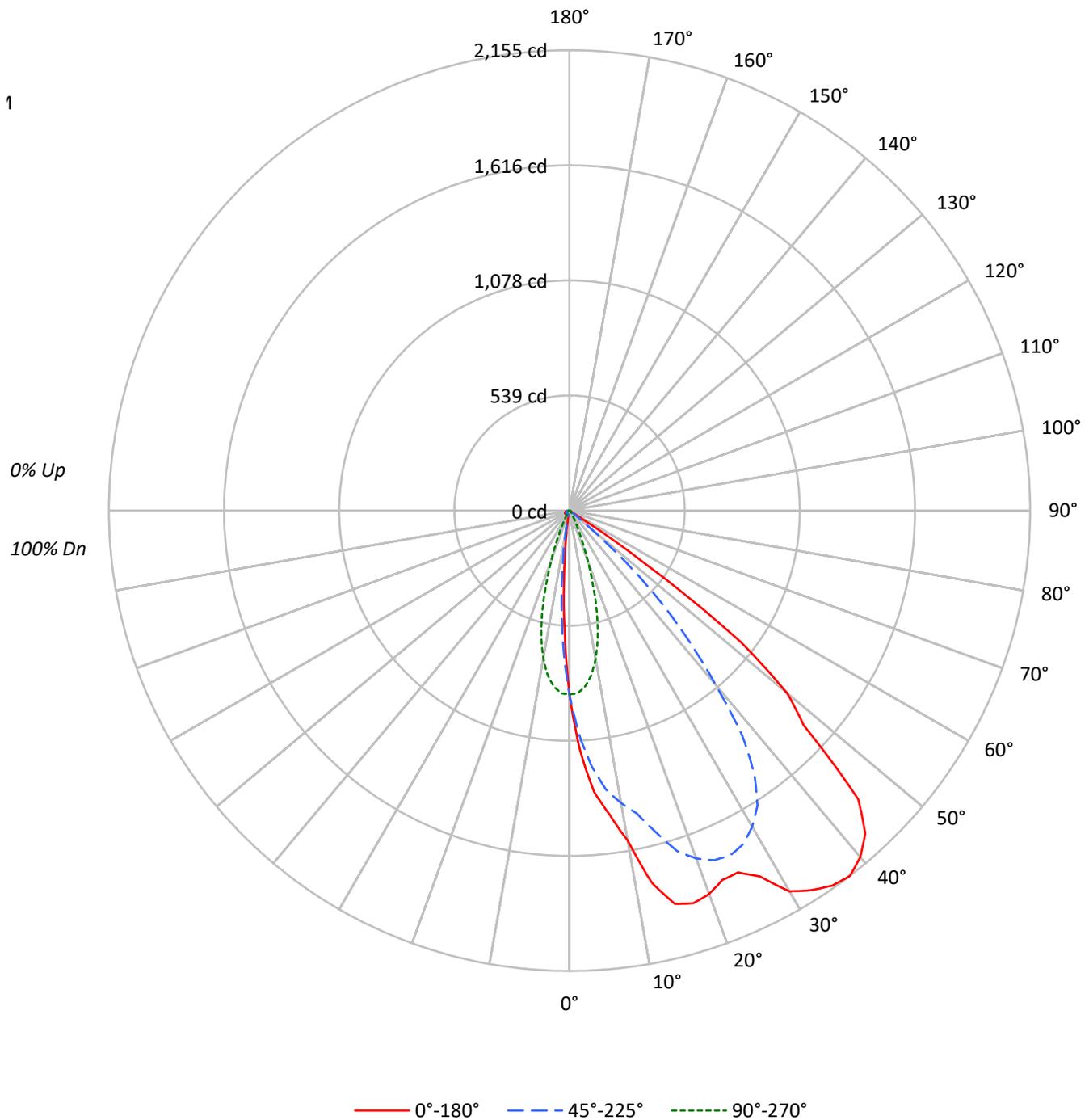
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1435.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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	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	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	148129	148129	148129	148129	148129
5°	228427	207958	143093	73492	48268
10°	274456	243065	123168	18537	7415
15°	339818	277592	88008	5117	3994
20°	349983	317543	45471	3427	3427
25°	355065	338247	18243	3078	3553
30°	409265	339861	7935	3222	3719
35°	450492	316839	3406	3406	4184
40°	475855	238490	1956	3934	4474
45°	465418	145722	1827	4262	5456
50°	356027	31053	2009	5010	6350
55°	130614	1111	2252	5615	7116
60°	1274	1274	2583	6441	8163
65°	1508	1508	3056	6602	8639
70°	1259	1863	3122	7553	10021
75°	799	1664	3327	8318	11645
80°	1190	2479	3670	8629	12397
85°	0	2371	4940	9880	12251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 465418 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	5.3
10°-20°	216.8	15.1
20°-30°	332.6	23.2
30°-40°	387.6	27.0
40°-50°	309.7	21.6
50°-60°	91.7	6.4
60°-70°	9.8	0.7
70°-80°	7.7	0.5
80°-90°	3.3	0.2
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°	625.2	43.6
0°-40°	1012.8	70.6
0°-60°	1414.2	98.6
0°-90°	1435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	860	860	860	860	860	
5°	1321	1203	828	425	279	132
15°	1906	1557	494	29	22	526
25°	1868	1780	96	16	19	888
35°	2143	1507	16	16	20	1335
45°	1911	598	8	18	22	1378
55°	435	4	8	19	24	461
65°	4	4	8	16	21	3
75°	1	2	5	12	18	2
85°	0	1	2	5	6	0
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°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1
2.5°	1121.9	1121.9	1118.1	1119.4	1116.9	1103.2	1100.7	1083.2	1068.3	1052.1	1038.3
5°	1321.3	1323.8	1320.1	1312.6	1302.6	1292.6	1271.4	1255.2	1234.0	1202.9	1174.2
7.5°	1434.7	1432.2	1426.0	1423.5	1417.3	1406.1	1391.1	1373.7	1348.7	1317.6	1283.9
10°	1569.4	1548.2	1541.9	1532.0	1512.0	1489.6	1463.4	1439.7	1418.5	1389.9	1353.7
12.5°	1786.2	1782.5	1757.6	1738.9	1711.5	1661.6	1616.7	1564.4	1502.0	1452.2	1404.8
15°	1905.9	1908.4	1897.2	1882.2	1864.8	1823.6	1778.8	1717.7	1644.1	1556.9	1479.6
17.5°	1927.1	1930.8	1924.6	1918.4	1913.4	1889.7	1862.3	1818.7	1751.3	1670.3	1555.6
20°	1909.6	1917.1	1918.4	1925.9	1935.8	1925.9	1903.4	1873.5	1817.4	1732.6	1623.0
22.5°	1871.0	1884.7	1894.7	1920.9	1947.0	1947.0	1933.3	1909.6	1854.8	1771.3	1659.1
25°	1868.5	1871.0	1874.7	1917.1	1958.3	1967.0	1954.5	1929.6	1869.8	1780.0	1657.9
27.5°	1930.8	1914.6	1889.7	1932.1	1980.7	1988.2	1970.7	1937.1	1866.0	1760.1	1615.5
30°	2058.0	2021.8	1969.5	2000.6	2034.3	2025.6	1990.7	1937.1	1841.1	1709.0	1535.7
32.5°	2106.6	2086.7	2068.0	2101.6	2107.8	2071.7	2009.4	1929.6	1801.2	1636.7	1404.8
35°	2142.7	2144.0	2136.5	2142.7	2112.8	2061.7	1993.2	1888.5	1726.4	1507.0	1231.5
37.5°	2155.2	2157.7	2141.5	2119.1	2074.2	2015.6	1933.3	1813.7	1601.8	1328.8	969.8
40°	2116.6	2109.1	2082.9	2051.8	2003.1	1943.3	1853.6	1675.3	1416.0	1060.8	756.6
42.5°	2048.0	2035.5	2004.4	1967.0	1915.9	1839.8	1696.5	1480.9	1150.5	827.7	529.8
45°	1910.9	1902.2	1863.5	1836.1	1775.0	1676.6	1492.1	1220.3	890.0	598.3	306.6
47.5°	1484.6	1485.8	1515.8	1529.5	1508.3	1429.7	1212.9	927.4	649.4	356.5	103.5
50°	1328.8	1322.5	1292.6	1251.5	1182.9	1065.8	890.0	655.7	383.9	115.9	15.0
52.5°	1008.4	1008.4	993.5	972.3	900.0	786.5	602.1	362.7	134.6	19.9	3.7
55°	435.0	412.6	425.1	448.7	430.0	374.0	281.7	108.4	23.7	3.7	3.7
57.5°	6.2	15.0	22.4	36.1	48.6	58.6	31.2	11.2	3.7	3.7	3.7
60°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
62.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
67.5°	2.5	2.5	2.5	3.7	2.5	3.7	3.7	3.7	3.7	3.7	3.7
70°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
75°	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	860.1	860.1	860.1	860.1	860.1	860.1	860.1	860.1
2.5°	1018.4	997.2	962.3	856.4	746.7	645.7	573.4	546.0
5°	1141.8	1103.2	1044.6	827.7	609.5	425.1	320.4	279.2
7.5°	1239.0	1189.2	1104.4	777.8	447.5	226.9	135.9	107.2
10°	1303.8	1249.0	1138.1	704.3	296.7	106.0	51.1	42.4
12.5°	1351.2	1282.7	1150.5	609.5	174.5	48.6	27.4	24.9
15°	1386.1	1297.6	1135.6	493.6	96.0	28.7	22.4	22.4
17.5°	1434.7	1305.1	1099.4	364.0	54.8	21.2	21.2	21.2
20°	1472.1	1305.1	1030.9	248.1	33.7	18.7	18.7	18.7
22.5°	1490.8	1285.1	947.3	157.1	23.7	17.5	18.7	18.7
25°	1472.1	1236.5	840.1	96.0	18.7	16.2	17.5	18.7
27.5°	1403.6	1139.3	696.8	61.1	15.0	16.2	17.5	18.7
30°	1288.9	998.5	534.8	39.9	13.7	16.2	17.5	18.7
32.5°	1126.8	789.0	346.5	26.2	12.5	16.2	17.5	18.7
35°	880.0	558.4	209.4	16.2	12.5	16.2	18.7	19.9
37.5°	659.4	372.7	113.4	10.0	12.5	16.2	18.7	19.9
40°	457.5	216.9	48.6	8.7	12.5	17.5	19.9	19.9
42.5°	265.5	86.0	12.5	7.5	12.5	17.5	19.9	21.2
45°	97.2	17.5	3.7	7.5	13.7	17.5	19.9	22.4
47.5°	13.7	3.7	3.7	7.5	13.7	17.5	21.2	22.4
50°	3.7	3.7	3.7	7.5	13.7	18.7	22.4	23.7
52.5°	3.7	3.7	3.7	7.5	13.7	18.7	22.4	23.7
55°	3.7	3.7	3.7	7.5	13.7	18.7	22.4	23.7
57.5°	3.7	3.7	3.7	7.5	13.7	18.7	22.4	23.7
60°	3.7	3.7	3.7	7.5	12.5	18.7	22.4	23.7
62.5°	3.7	3.7	3.7	7.5	12.5	17.5	21.2	22.4
65°	3.7	3.7	3.7	7.5	11.2	16.2	21.2	21.2
67.5°	3.7	3.7	3.7	6.2	11.2	16.2	19.9	21.2
70°	3.7	3.7	3.7	6.2	10.0	15.0	18.7	19.9
72.5°	3.7	3.7	3.7	5.0	8.7	13.7	17.5	18.7
75°	2.5	3.7	3.7	5.0	8.7	12.5	16.2	17.5
77.5°	2.5	3.7	3.7	3.7	7.5	10.0	13.7	15.0
80°	2.5	2.5	3.7	3.7	6.2	8.7	11.2	12.5
82.5°	2.5	2.5	2.5	3.7	5.0	6.2	8.7	8.7
85°	2.5	2.5	2.5	2.5	3.7	5.0	6.2	6.2
87.5°	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)