

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: P1319595

Luminaire Tested: LDSQA3D20R659835D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

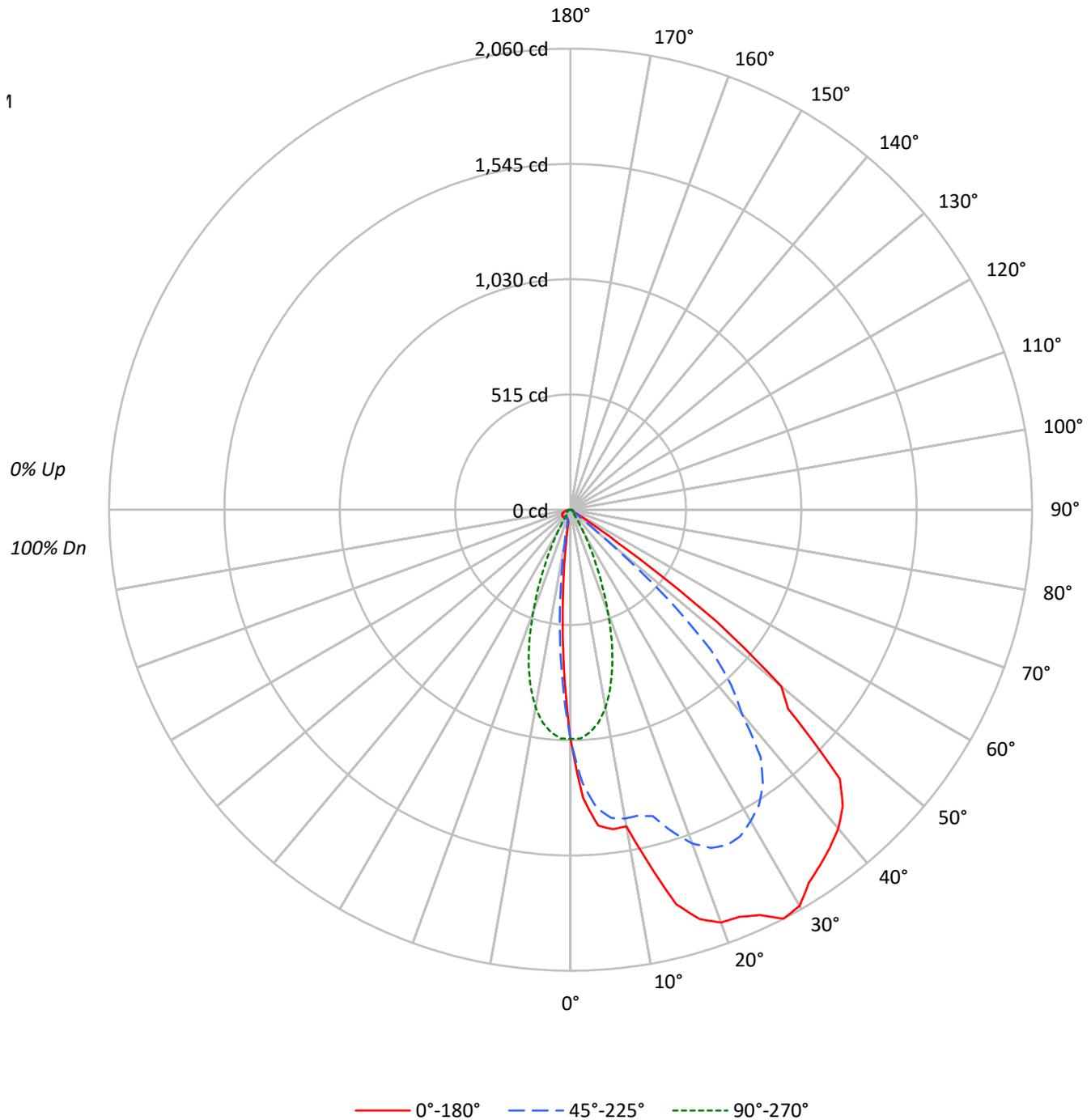
Test Method: LM-79-2019  
Report Number: P1319595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R659835D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1534.0 lumens  
Efficiency: N/A  
Efficacy: 56.0 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 (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	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°	176253	176253	176253	176253	176253
5°	245006	231228	172517	94808	66697
10°	251179	245041	156954	26477	9758
15°	325447	252684	128482	8523	8237
20°	359660	290712	89402	7588	7881
25°	379578	314133	50585	7278	7867
30°	406422	319557	22830	7298	8233
35°	407896	314716	7380	7716	9041
40°	417897	267357	5014	8251	10027
45°	413905	215477	5042	8939	10863
50°	328456	50826	5117	9833	12378
55°	78008	2883	5255	11020	13872
60°	2756	3307	6028	11539	14811
65°	3260	3260	5827	12348	16260
70°	2417	3223	5640	12035	16869
75°	2129	3194	5323	12709	16968
80°	1587	3174	6347	12695	17356
85°	3162	6323	6323	12647	15808

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 414660 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	5.6
10°-20°	224.9	14.7
20°-30°	353.3	23.0
30°-40°	404.2	26.3
40°-50°	324.9	21.2
50°-60°	105.7	6.9
60°-70°	18.8	1.2
70°-80°	12.4	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°	663.6	43.3
0°-40°	1067.8	69.6
0°-60°	1498.4	97.7
0°-90°	1534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1023	1023	1023	1023	1023	
5°	1417	1338	998	548	386	134
15°	1825	1417	721	48	46	509
25°	1998	1653	266	38	41	931
35°	1940	1497	35	37	43	1218
45°	1699	885	21	37	45	1223
55°	260	10	18	37	46	371
65°	8	8	14	30	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°	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4
2.5°	1288.1	1283.3	1289.7	1278.5	1276.9	1265.7	1259.4	1256.2	1241.8	1222.7	1205.2
5°	1417.2	1398.1	1402.8	1401.2	1393.3	1388.5	1382.1	1374.1	1355.0	1337.5	1315.2
7.5°	1439.5	1423.6	1426.8	1428.3	1423.6	1422.0	1420.4	1417.2	1404.4	1388.5	1369.4
10°	1436.3	1420.4	1418.8	1414.0	1409.2	1410.8	1410.8	1410.8	1407.6	1401.2	1394.9
12.5°	1621.2	1598.9	1594.1	1560.7	1530.4	1477.8	1444.3	1412.4	1398.1	1399.7	1394.9
15°	1825.3	1823.7	1807.8	1775.9	1724.9	1677.0	1600.5	1543.1	1469.8	1417.2	1394.9
17.5°	1917.7	1916.2	1901.8	1874.7	1838.0	1793.4	1737.6	1670.7	1589.4	1508.1	1441.1
20°	1962.4	1973.5	1957.6	1935.3	1900.2	1858.8	1806.2	1745.6	1669.1	1586.2	1506.5
22.5°	1968.8	1983.1	1968.8	1952.8	1927.3	1900.2	1855.6	1793.4	1715.3	1635.6	1557.5
25°	1997.5	2002.2	1971.9	1951.2	1927.3	1908.2	1873.1	1818.9	1739.2	1653.1	1576.6
27.5°	2059.6	2038.9	1975.1	1946.4	1924.1	1906.6	1873.1	1817.3	1731.2	1643.6	1563.8
30°	2043.7	2035.7	1979.9	1952.8	1933.7	1916.2	1874.7	1803.0	1699.4	1606.9	1524.0
32.5°	1978.3	1994.3	1975.1	1965.6	1956.0	1933.7	1873.1	1775.9	1659.5	1565.4	1453.9
35°	1940.1	1959.2	1960.8	1960.8	1949.6	1916.2	1844.4	1736.0	1619.6	1496.9	1347.0
37.5°	1901.8	1917.7	1927.3	1933.7	1917.7	1869.9	1779.1	1681.8	1554.3	1393.3	1130.2
40°	1858.8	1869.9	1877.9	1881.1	1857.2	1795.0	1712.1	1602.1	1458.6	1189.2	1009.1
42.5°	1798.2	1804.6	1803.0	1801.4	1775.9	1707.3	1629.2	1514.4	1230.7	1060.1	841.7
45°	1699.4	1693.0	1702.5	1702.5	1669.1	1618.0	1514.4	1291.3	1101.5	884.7	542.0
47.5°	1316.8	1321.5	1367.8	1442.7	1488.9	1474.6	1334.3	1130.2	926.2	580.3	180.1
50°	1225.9	1221.1	1222.7	1230.7	1235.5	1195.6	1095.2	954.9	612.1	189.7	12.8
52.5°	822.6	827.4	864.0	948.5	975.6	946.9	851.3	637.7	223.2	12.8	11.2
55°	259.8	277.4	298.1	342.7	420.9	470.3	460.7	226.4	14.3	9.6	11.2
57.5°	9.6	9.6	12.8	22.3	43.0	70.1	73.3	14.3	11.2	11.2	11.2
60°	8.0	8.0	8.0	8.0	8.0	8.0	9.6	9.6	9.6	9.6	9.6
62.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.6	9.6	9.6	9.6
65°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	9.6
67.5°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.0	8.0	8.0	8.0
70°	4.8	4.8	4.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.0
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.4	6.4	6.4
75°	3.2	3.2	3.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8
80°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8
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°	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4	1023.4
2.5°	1195.6	1176.5	1138.2	1023.4	903.9	784.3	709.4	690.3
5°	1289.7	1267.3	1213.1	997.9	755.6	548.4	430.4	385.8
7.5°	1347.0	1319.9	1256.2	958.1	588.2	318.8	191.3	153.0
10°	1372.6	1348.6	1276.9	897.5	425.6	151.4	67.0	55.8
12.5°	1383.7	1364.6	1284.9	817.8	277.4	67.0	49.4	47.8
15°	1388.5	1367.8	1281.7	720.6	157.8	47.8	46.2	46.2
17.5°	1393.3	1369.4	1262.6	609.0	87.7	44.6	43.0	44.6
20°	1431.5	1363.0	1229.1	487.8	57.4	41.4	41.4	43.0
22.5°	1469.8	1361.4	1170.1	373.0	44.6	39.9	41.4	41.4
25°	1482.5	1345.5	1095.2	266.2	38.3	38.3	39.9	41.4
27.5°	1458.6	1299.2	994.7	180.1	33.5	38.3	39.9	41.4
30°	1402.8	1221.1	873.6	114.8	31.9	36.7	39.9	41.4
32.5°	1299.2	1066.5	738.1	68.5	30.3	36.7	41.4	41.4
35°	1092.0	894.3	585.0	35.1	30.3	36.7	41.4	43.0
37.5°	954.9	746.1	408.1	23.9	30.3	36.7	41.4	43.0
40°	792.3	538.8	170.6	22.3	30.3	36.7	41.4	44.6
42.5°	548.4	234.3	27.1	20.7	28.7	36.7	43.0	44.6
45°	197.7	30.3	12.8	20.7	28.7	36.7	43.0	44.6
47.5°	17.5	11.2	12.8	20.7	28.7	36.7	43.0	46.2
50°	11.2	11.2	11.2	19.1	28.7	36.7	43.0	46.2
52.5°	11.2	11.2	11.2	19.1	27.1	36.7	44.6	46.2
55°	11.2	11.2	11.2	17.5	27.1	36.7	43.0	46.2
57.5°	11.2	11.2	12.8	17.5	27.1	35.1	43.0	44.6
60°	11.2	11.2	11.2	17.5	25.5	33.5	41.4	43.0
62.5°	9.6	11.2	11.2	15.9	23.9	31.9	39.9	41.4
65°	9.6	9.6	11.2	14.3	22.3	30.3	36.7	39.9
67.5°	8.0	9.6	9.6	12.8	19.1	27.1	33.5	36.7
70°	8.0	8.0	8.0	11.2	17.5	23.9	31.9	33.5
72.5°	6.4	8.0	8.0	9.6	14.3	20.7	27.1	30.3
75°	6.4	6.4	6.4	8.0	12.8	19.1	23.9	25.5
77.5°	4.8	4.8	6.4	6.4	11.2	14.3	20.7	22.3
80°	4.8	4.8	4.8	6.4	8.0	12.8	15.9	17.5
82.5°	3.2	3.2	3.2	4.8	6.4	8.0	11.2	12.8
85°	3.2	3.2	3.2	3.2	4.8	6.4	8.0	8.0
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)