

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: P1310890

Luminaire Tested: LDSQA3D24R709035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

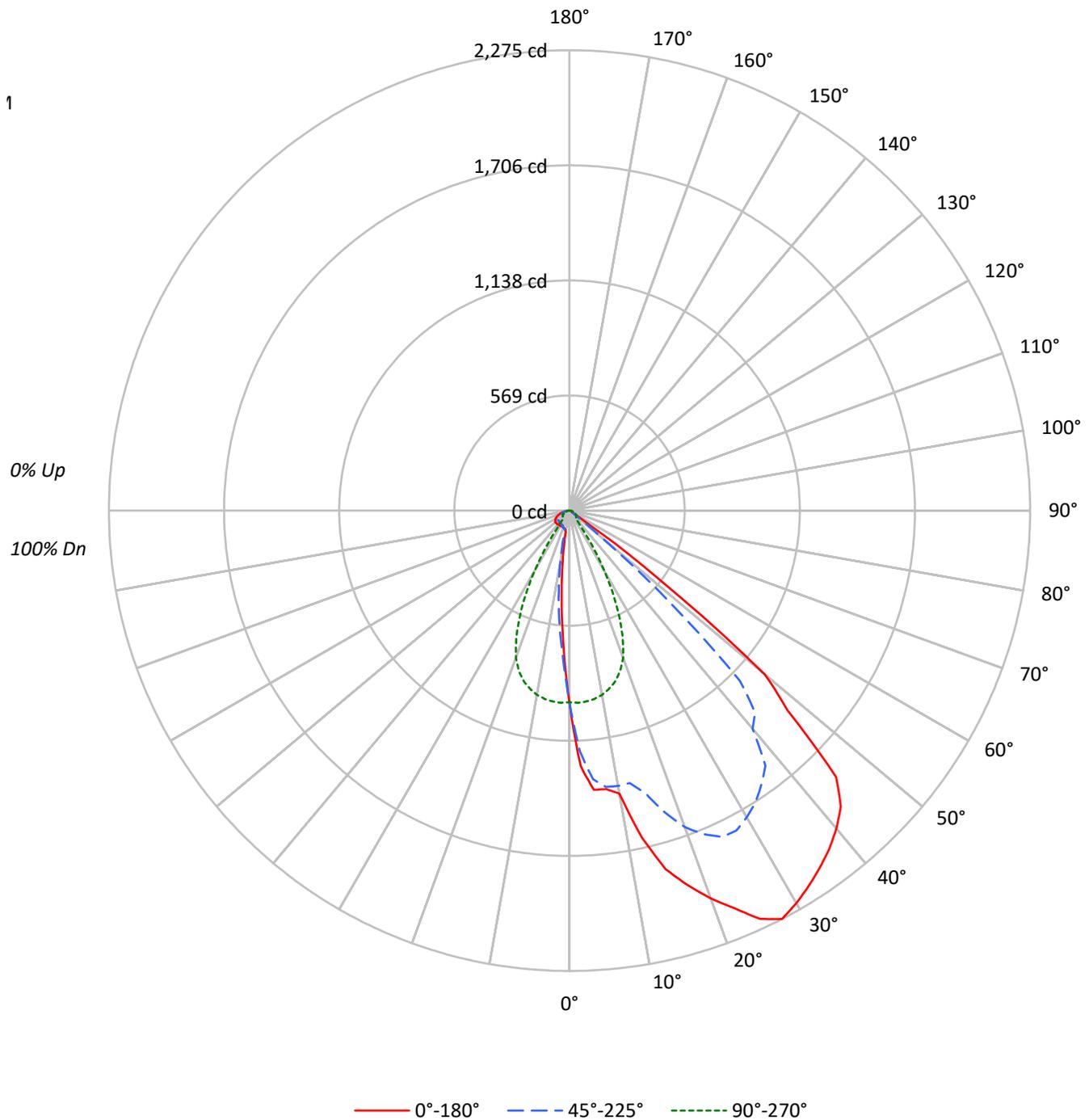
Test Method: LM-79-2019  
Report Number: P1310890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R709035D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1798.0 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	90	
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	80	
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	71	
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	64	
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	57	
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	51	
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	46	
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	42	
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	38	
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	35	

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

	0°	45°	90°	135°	180°
0°	163026	163026	163026	163026	163026
5°	239491	230311	163649	97695	76534
10°	248329	241544	161624	46745	18904
15°	327016	257534	155690	16724	16368
20°	373534	305117	141709	16073	16458
25°	422961	338057	111261	15506	16285
30°	445479	348114	68967	15412	17441
35°	452952	347430	22727	15873	18438
40°	460972	316030	11016	16974	20189
45°	453678	290201	11423	17877	21872
50°	337271	53559	11467	19666	24060
55°	26963	7356	12251	20838	25732
60°	5614	7716	11952	21080	26695
65°	5827	7498	11655	20783	27426
70°	5136	7201	11279	19538	26688
75°	4059	6787	9515	19031	25818
80°	4066	6050	10116	18249	24299
85°	3952	8102	12054	16203	20156

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 459134 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	4.8
10°-20°	242.3	13.5
20°-30°	406.7	22.6
30°-40°	489.2	27.2
40°-50°	387.8	21.6
50°-60°	124.0	6.9
60°-70°	34.6	1.9
70°-80°	20.7	1.1
80°-90°	6.5	0.4
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°	735.2	40.9
0°-40°	1224.3	68.1
0°-60°	1736.2	96.6
0°-90°	1798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	947	947	947	947	947	
5°	1385	1332	947	565	443	130
15°	1834	1444	873	94	92	516
25°	2226	1779	586	82	86	1018
35°	2154	1652	108	76	88	1349
45°	1863	1192	47	73	90	1338
55°	90	24	41	69	86	281
65°	14	18	29	51	67	14
75°	6	10	14	29	39	7
85°	2	4	6	8	10	2
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°	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6
2.5°	1262.9	1271.0	1271.0	1260.8	1264.9	1248.6	1236.3	1218.0	1213.9	1191.5	1162.9
5°	1385.3	1381.2	1381.2	1373.0	1377.1	1371.0	1364.9	1360.8	1348.6	1332.2	1315.9
7.5°	1387.3	1391.4	1393.4	1391.4	1399.6	1393.4	1393.4	1393.4	1385.3	1377.1	1360.8
10°	1420.0	1413.8	1407.7	1393.4	1385.3	1379.2	1379.2	1381.2	1385.3	1381.2	1371.0
12.5°	1654.6	1632.1	1621.9	1587.3	1560.7	1515.8	1464.8	1426.1	1391.4	1379.2	1371.0
15°	1834.1	1830.0	1809.6	1777.0	1744.3	1691.3	1632.1	1573.0	1509.7	1444.4	1397.5
17.5°	1940.2	1932.0	1911.6	1877.0	1838.2	1789.2	1742.3	1697.4	1636.2	1562.8	1487.3
20°	2038.1	2019.8	1993.2	1952.4	1913.7	1866.8	1815.8	1772.9	1721.9	1664.8	1577.1
22.5°	2125.9	2109.5	2066.7	2011.6	1972.8	1928.0	1883.1	1842.3	1795.4	1730.1	1650.5
25°	2225.8	2189.1	2119.7	2048.3	2001.4	1964.7	1932.0	1899.4	1850.4	1779.0	1685.2
27.5°	2274.8	2223.8	2148.3	2076.9	2032.0	1993.2	1958.6	1925.9	1870.8	1783.1	1675.0
30°	2240.1	2211.5	2158.5	2103.4	2066.7	2030.0	1989.2	1940.2	1852.5	1750.5	1650.5
32.5°	2199.3	2185.0	2160.5	2127.9	2105.5	2068.7	2011.6	1932.0	1809.6	1709.7	1601.5
35°	2154.4	2148.3	2140.1	2125.9	2111.6	2076.9	2005.5	1889.2	1766.8	1652.5	1548.5
37.5°	2107.5	2101.4	2107.5	2105.5	2093.2	2048.3	1940.2	1832.1	1705.6	1589.3	1387.3
40°	2050.4	2046.3	2056.5	2066.7	2052.4	1993.2	1877.0	1746.4	1634.2	1405.7	1336.3
42.5°	1983.0	1981.0	1999.4	2007.5	1987.1	1899.4	1762.7	1666.8	1430.2	1356.7	1193.5
45°	1862.7	1866.8	1874.9	1885.1	1872.9	1777.0	1652.5	1477.1	1373.0	1191.5	679.4
47.5°	1458.7	1462.8	1503.6	1589.3	1648.5	1615.8	1509.7	1379.2	1228.2	681.4	214.2
50°	1258.8	1254.7	1256.7	1277.1	1324.1	1369.0	1336.3	1264.9	732.4	199.9	26.5
52.5°	552.9	614.1	679.4	863.0	981.3	1105.8	1130.3	791.6	238.7	26.5	26.5
55°	89.8	93.8	118.3	173.4	312.1	471.3	571.2	265.2	24.5	24.5	24.5
57.5°	18.4	18.4	18.4	20.4	30.6	65.3	75.5	22.4	22.4	22.4	24.5
60°	16.3	16.3	16.3	16.3	18.4	18.4	18.4	20.4	20.4	22.4	22.4
62.5°	16.3	16.3	16.3	16.3	16.3	16.3	18.4	18.4	20.4	20.4	22.4
65°	14.3	14.3	14.3	14.3	16.3	16.3	16.3	16.3	18.4	18.4	20.4
67.5°	12.2	12.2	12.2	12.2	14.3	14.3	14.3	16.3	16.3	16.3	18.4
70°	10.2	10.2	10.2	10.2	12.2	12.2	12.2	12.2	14.3	14.3	14.3
72.5°	8.2	8.2	8.2	8.2	10.2	10.2	10.2	10.2	12.2	12.2	12.2
75°	6.1	6.1	8.2	8.2	8.2	8.2	8.2	8.2	10.2	10.2	10.2
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	8.2	8.2	8.2	8.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	6.1	6.1	6.1	6.1	6.1
82.5°	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	946.6	946.6	946.6	946.6	946.6	946.6	946.6	946.6
2.5°	1144.5	1116.0	1077.2	950.7	834.4	728.3	675.3	669.2
5°	1289.4	1262.9	1197.6	946.6	724.3	565.1	469.2	442.7
7.5°	1344.5	1322.0	1264.9	938.5	620.2	406.0	297.9	257.1
10°	1358.8	1344.5	1295.5	924.2	512.1	267.3	140.8	108.1
12.5°	1364.9	1354.7	1307.8	901.8	404.0	138.7	95.9	95.9
15°	1375.1	1364.9	1320.0	873.2	297.9	93.8	91.8	91.8
17.5°	1420.0	1387.3	1336.3	830.4	195.9	89.8	89.8	89.8
20°	1493.4	1422.0	1344.5	773.2	122.4	87.7	87.7	89.8
22.5°	1554.6	1458.7	1342.4	687.5	89.8	83.6	85.7	87.7
25°	1581.1	1475.0	1324.1	585.5	77.5	81.6	85.7	85.7
27.5°	1577.1	1481.2	1307.8	469.2	73.4	79.6	83.6	87.7
30°	1554.6	1464.8	1271.0	346.8	69.4	77.5	83.6	87.7
32.5°	1515.8	1401.6	1197.6	224.4	67.3	77.5	83.6	87.7
35°	1389.4	1299.6	1091.5	108.1	65.3	75.5	85.7	87.7
37.5°	1315.9	1191.5	832.4	53.0	63.2	75.5	85.7	87.7
40°	1197.6	889.5	375.4	49.0	63.2	75.5	85.7	89.8
42.5°	752.8	365.2	61.2	46.9	61.2	75.5	85.7	89.8
45°	275.4	49.0	32.6	46.9	61.2	73.4	85.7	89.8
47.5°	28.6	28.6	30.6	44.9	59.2	73.4	85.7	89.8
50°	26.5	28.6	30.6	42.8	57.1	73.4	83.6	89.8
52.5°	26.5	28.6	30.6	42.8	55.1	71.4	83.6	89.8
55°	26.5	28.6	28.6	40.8	53.0	69.4	81.6	85.7
57.5°	24.5	26.5	28.6	38.8	51.0	65.3	79.6	83.6
60°	24.5	26.5	28.6	34.7	49.0	61.2	75.5	77.5
62.5°	22.4	24.5	26.5	32.6	44.9	57.1	69.4	73.4
65°	22.4	22.4	24.5	28.6	40.8	51.0	63.2	67.3
67.5°	18.4	20.4	20.4	24.5	34.7	44.9	57.1	61.2
70°	16.3	16.3	18.4	22.4	30.6	38.8	49.0	53.0
72.5°	14.3	14.3	14.3	18.4	26.5	34.7	42.8	46.9
75°	12.2	12.2	12.2	14.3	22.4	28.6	36.7	38.8
77.5°	10.2	10.2	10.2	12.2	18.4	24.5	28.6	32.6
80°	8.2	8.2	8.2	10.2	14.3	18.4	22.4	24.5
82.5°	6.1	6.1	6.1	8.2	10.2	12.2	16.3	16.3
85°	4.1	4.1	4.1	6.1	6.1	8.2	10.2	10.2
87.5°	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)