

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: P1312933

Luminaire Tested: LDSQA3D20R659050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312933  
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: LDSQA3D20R659050D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

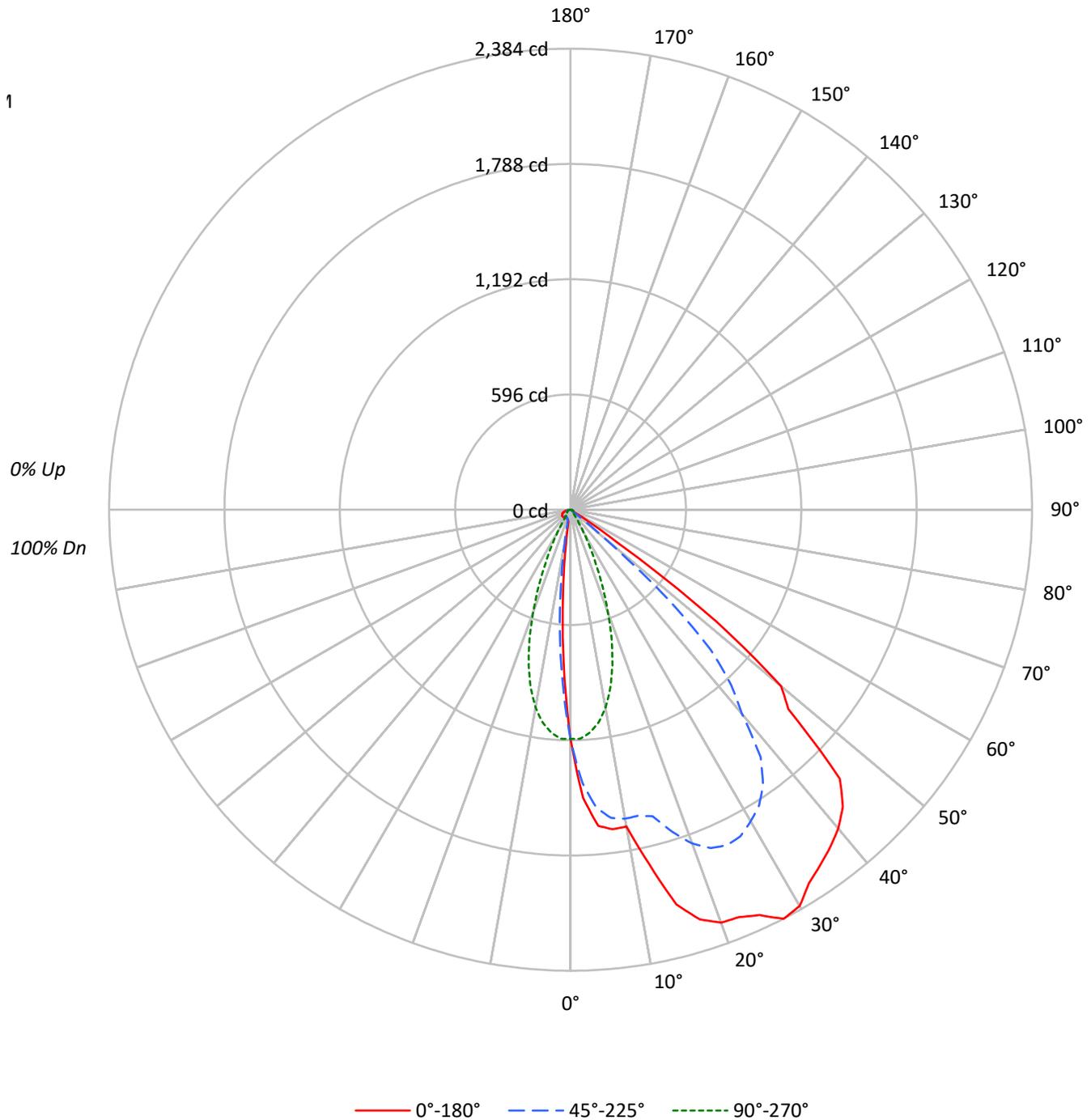
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1776.0 lumens  
Efficiency: N/A  
Efficacy: 61.7 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 (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°	204067	204067	204067	204067	204067
5°	283662	267705	199746	109762	77208
10°	290807	283707	181717	30656	11297
15°	376779	292551	148736	9878	9539
20°	416402	336567	103514	8797	9127
25°	439456	363692	58566	8418	9121
30°	470536	369970	26429	8432	9546
35°	472231	364355	8536	8914	10470
40°	483814	309533	5800	9532	11623
45°	479179	249478	5845	10327	12592
50°	380274	58838	5921	11360	14334
55°	90319	3333	6095	12731	16064
60°	3169	3823	6992	13364	17153
65°	3749	3749	6765	14304	18786
70°	2769	3726	6496	13948	19538
75°	2462	3660	6122	14706	19630
80°	1785	3670	7339	14679	20133
85°	3557	7311	7311	14623	18180

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 480080 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	5.6
10°-20°	260.4	14.7
20°-30°	409.1	23.0
30°-40°	468.0	26.3
40°-50°	376.1	21.2
50°-60°	122.3	6.9
60°-70°	21.7	1.2
70°-80°	14.3	0.8
80°-90°	5.1	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°	768.3	43.3
0°-40°	1236.3	69.6
0°-60°	1734.8	97.7
0°-90°	1776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1185	1185	1185	1185	1185	
5°	1641	1548	1155	635	447	155
15°	2113	1641	834	55	54	589
25°	2313	1914	308	44	48	1078
35°	2246	1733	41	42	50	1411
45°	1967	1024	24	42	52	1416
55°	301	11	20	42	54	430
65°	9	9	17	35	46	8
75°	4	6	9	22	30	4
85°	2	4	4	7	9	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°	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1491.3	1485.7	1493.1	1480.2	1478.3	1465.4	1458.0	1454.4	1437.7	1415.6	1395.3
5°	1640.8	1618.6	1624.1	1622.3	1613.1	1607.5	1600.2	1590.9	1568.8	1548.5	1522.6
7.5°	1666.6	1648.1	1651.8	1653.7	1648.1	1646.3	1644.5	1640.8	1626.0	1607.5	1585.4
10°	1662.9	1644.5	1642.6	1637.1	1631.5	1633.4	1633.4	1633.4	1629.7	1622.3	1614.9
12.5°	1877.0	1851.2	1845.6	1806.9	1771.8	1710.9	1672.1	1635.2	1618.6	1620.5	1614.9
15°	2113.2	2111.4	2092.9	2056.0	1997.0	1941.6	1853.0	1786.6	1701.7	1640.8	1614.9
17.5°	2220.3	2218.4	2201.8	2170.5	2128.0	2076.3	2011.7	1934.2	1840.1	1746.0	1668.4
20°	2272.0	2284.9	2266.4	2240.6	2200.0	2152.0	2091.1	2021.0	1932.4	1836.4	1744.1
22.5°	2279.3	2296.0	2279.3	2260.9	2231.4	2200.0	2148.3	2076.3	1985.9	1893.6	1803.2
25°	2312.6	2318.1	2283.0	2259.0	2231.4	2209.2	2168.6	2105.9	2013.6	1913.9	1825.3
27.5°	2384.5	2360.6	2286.7	2253.5	2227.7	2207.4	2168.6	2104.0	2004.3	1902.8	1810.6
30°	2366.1	2356.9	2292.3	2260.9	2238.7	2218.4	2170.5	2087.4	1967.4	1860.4	1764.4
32.5°	2290.4	2308.9	2286.7	2275.7	2264.6	2238.7	2168.6	2056.0	1921.3	1812.4	1683.2
35°	2246.1	2268.3	2270.1	2270.1	2257.2	2218.4	2135.4	2009.9	1875.2	1733.0	1559.6
37.5°	2201.8	2220.3	2231.4	2238.7	2220.3	2164.9	2059.7	1947.1	1799.5	1613.1	1308.5
40°	2152.0	2164.9	2174.1	2177.8	2150.2	2078.2	1982.2	1854.9	1688.7	1376.8	1168.3
42.5°	2081.9	2089.2	2087.4	2085.6	2056.0	1976.7	1886.2	1753.3	1424.8	1227.3	974.5
45°	1967.4	1960.1	1971.1	1971.1	1932.4	1873.3	1753.3	1495.0	1275.3	1024.3	627.5
47.5°	1524.5	1530.0	1583.5	1670.3	1723.8	1707.2	1544.8	1308.5	1072.3	671.8	208.6
50°	1419.3	1413.7	1415.6	1424.8	1430.4	1384.2	1267.9	1105.5	708.7	219.6	14.8
52.5°	952.3	957.9	1000.3	1098.1	1129.5	1096.3	985.6	738.2	258.4	14.8	12.9
55°	300.8	321.1	345.1	396.8	487.2	544.5	533.4	262.1	16.6	11.1	12.9
57.5°	11.1	11.1	14.8	25.8	49.8	81.2	84.9	16.6	12.9	12.9	12.9
60°	9.2	9.2	9.2	9.2	9.2	9.2	11.1	11.1	11.1	11.1	11.1
62.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	11.1	11.1	11.1	11.1
65°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	11.1
67.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.2	9.2	9.2	9.2
70°	5.5	5.5	5.5	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.2
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4
75°	3.7	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5
80°	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1384.2	1362.1	1317.8	1184.9	1046.5	908.0	821.3	799.2
5°	1493.1	1467.3	1404.5	1155.4	874.8	634.9	498.3	446.6
7.5°	1559.6	1528.2	1454.4	1109.2	681.0	369.1	221.5	177.2
10°	1589.1	1561.4	1478.3	1039.1	492.8	175.3	77.5	64.6
12.5°	1602.0	1579.9	1487.6	946.8	321.1	77.5	57.2	55.4
15°	1607.5	1583.5	1483.9	834.2	182.7	55.4	53.5	53.5
17.5°	1613.1	1585.4	1461.7	705.0	101.5	51.7	49.8	51.7
20°	1657.4	1578.0	1423.0	564.8	66.4	48.0	48.0	49.8
22.5°	1701.7	1576.2	1354.7	431.9	51.7	46.1	48.0	48.0
25°	1716.4	1557.7	1267.9	308.2	44.3	44.3	46.1	48.0
27.5°	1688.7	1504.2	1151.7	208.6	38.8	44.3	46.1	48.0
30°	1624.1	1413.7	1011.4	132.9	36.9	42.4	46.1	48.0
32.5°	1504.2	1234.7	854.5	79.4	35.1	42.4	48.0	48.0
35°	1264.3	1035.4	677.3	40.6	35.1	42.4	48.0	49.8
37.5°	1105.5	863.8	472.5	27.7	35.1	42.4	48.0	49.8
40°	917.3	623.8	197.5	25.8	35.1	42.4	48.0	51.7
42.5°	634.9	271.3	31.4	24.0	33.2	42.4	49.8	51.7
45°	228.9	35.1	14.8	24.0	33.2	42.4	49.8	51.7
47.5°	20.3	12.9	14.8	24.0	33.2	42.4	49.8	53.5
50°	12.9	12.9	12.9	22.1	33.2	42.4	49.8	53.5
52.5°	12.9	12.9	12.9	22.1	31.4	42.4	51.7	53.5
55°	12.9	12.9	12.9	20.3	31.4	42.4	49.8	53.5
57.5°	12.9	12.9	14.8	20.3	31.4	40.6	49.8	51.7
60°	12.9	12.9	12.9	20.3	29.5	38.8	48.0	49.8
62.5°	11.1	12.9	12.9	18.5	27.7	36.9	46.1	48.0
65°	11.1	11.1	12.9	16.6	25.8	35.1	42.4	46.1
67.5°	9.2	11.1	11.1	14.8	22.1	31.4	38.8	42.4
70°	9.2	9.2	9.2	12.9	20.3	27.7	36.9	38.8
72.5°	7.4	9.2	9.2	11.1	16.6	24.0	31.4	35.1
75°	7.4	7.4	7.4	9.2	14.8	22.1	27.7	29.5
77.5°	5.5	5.5	7.4	7.4	12.9	16.6	24.0	25.8
80°	5.5	5.5	5.5	7.4	9.2	14.8	18.5	20.3
82.5°	3.7	3.7	3.7	5.5	7.4	9.2	12.9	14.8
85°	3.7	3.7	3.7	3.7	5.5	7.4	9.2	9.2
87.5°	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)