

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: P1310031

Luminaire Tested: LDSQA3D05R309035DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

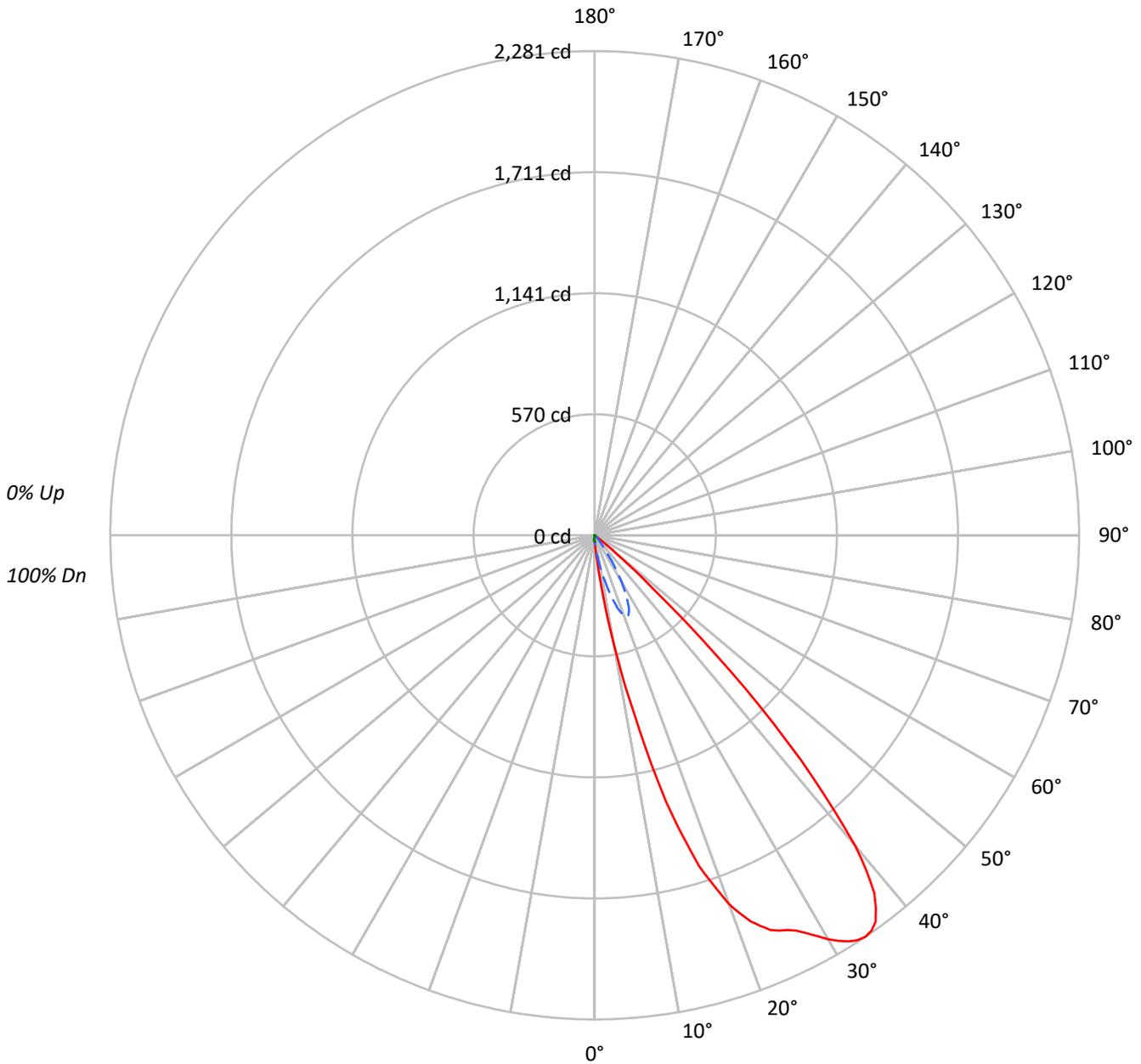
Test Method: LM-79-2019  
Report Number: P1310031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R309035DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 549.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.21  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	73	70	76	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	5063	5063	5063	5063	5063
5°	18343	11393	4633	1867	1331
10°	90815	27299	3603	367	0
15°	231680	51992	2300	0	0
20°	338510	73933	953	0	0
25°	390543	72552	190	0	0
30°	437087	49796	0	0	0
35°	478013	21445	0	0	0
40°	429025	8341	0	0	0
45°	219106	3385	0	0	0
50°	33813	402	0	0	0
55°	2012	0	150	0	0
60°	0	0	172	0	0
65°	0	0	408	0	0
70°	0	252	504	0	0
75°	0	333	998	0	0
80°	0	496	1488	0	0
85°	0	988	2964	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 219106 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.1	1.1
10°-20°	73.1	13.3
20°-30°	180.8	32.9
30°-40°	207.9	37.9
40°-50°	77.1	14.0
50°-60°	2.8	0.5
60°-70°	0.3	0.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	260.0	47.4
0°-40°	467.9	85.2
0°-60°	547.8	99.8
0°-90°	549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	106	66	27	11	8	23
15°	1299	292	13	0	0	374
25°	2055	382	1	0	0	950
35°	2274	102	0	0	0	1378
45°	900	14	0	0	0	701
55°	7	0	0	0	0	23
65°	0	0	1	0	0	0
75°	0	0	2	0	0	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
2.5°	52.0	52.6	52.6	51.0	50.5	50.0	48.4	43.8	36.6	29.4	23.7
5°	106.1	106.6	106.6	103.6	97.4	91.2	86.0	65.9	42.2	26.8	17.5
7.5°	250.4	250.9	240.1	227.7	203.0	190.1	166.4	101.5	47.9	24.2	11.3
10°	519.3	508.0	479.7	443.6	405.5	356.0	306.0	156.1	52.0	20.6	7.2
12.5°	868.1	857.3	820.7	769.2	694.5	597.6	502.8	219.5	52.6	16.5	4.1
15°	1299.4	1269.0	1225.2	1139.6	1029.4	879.5	722.8	291.6	50.5	12.9	1.0
17.5°	1633.7	1605.9	1550.3	1450.3	1313.3	1146.8	954.7	360.1	44.8	8.2	0.0
20°	1847.0	1817.6	1765.6	1677.5	1531.7	1336.4	1116.5	403.4	37.1	5.2	0.0
21°	1907.8	1879.5	1828.5	1740.9	1595.6	1400.8	1156.1	412.7	33.5	4.1	0.0
22°	1961.4	1939.2	1891.8	1796.5	1648.7	1448.2	1196.3	413.7	30.9	3.1	0.0
23°	1999.0	1983.0	1935.6	1848.0	1700.7	1486.9	1217.9	407.5	27.8	2.1	0.0
24°	2035.1	2015.5	1974.8	1893.4	1741.9	1519.3	1237.5	396.2	24.7	1.5	0.0
25°	2055.2	2032.5	2001.1	1924.8	1775.9	1540.0	1249.4	381.8	21.6	1.0	0.0
26°	2069.1	2051.6	2017.0	1943.4	1790.3	1553.3	1250.9	360.6	19.6	0.5	0.0
27°	2090.2	2072.7	2039.2	1959.8	1796.5	1551.3	1241.6	336.4	17.0	0.0	0.0
28°	2122.1	2099.0	2065.5	1977.4	1799.1	1542.5	1221.0	310.2	14.4	0.0	0.0
29°	2158.7	2135.0	2098.4	2000.5	1799.6	1525.0	1188.6	281.3	12.9	0.0	0.0
30°	2197.9	2177.3	2140.2	2023.2	1805.3	1502.3	1151.0	250.4	10.3	0.0	0.0
31°	2228.8	2210.2	2170.6	2043.8	1809.9	1482.8	1104.6	219.5	8.8	0.0	0.0
32°	2255.6	2239.1	2190.1	2048.5	1800.6	1454.9	1055.1	189.6	7.2	0.0	0.0
33°	2274.1	2253.5	2196.3	2036.6	1773.9	1409.1	1000.0	161.3	5.7	0.0	0.0
34°	2280.8	2256.1	2187.1	2005.7	1719.8	1339.5	928.4	131.9	4.6	0.0	0.0
35°	2273.6	2243.2	2153.6	1952.6	1646.6	1256.6	842.4	102.0	3.6	0.0	0.0
36°	2250.4	2211.8	2105.6	1876.9	1542.0	1158.7	756.3	79.3	2.6	0.0	0.0
37°	2200.4	2157.7	2023.7	1776.9	1438.5	1046.4	658.4	61.8	1.5	0.0	0.0
38°	2139.1	2077.3	1914.5	1650.7	1304.5	920.2	561.6	51.0	1.0	0.0	0.0
39°	2034.6	1966.5	1784.7	1505.4	1173.1	800.1	467.3	44.3	0.5	0.0	0.0
40°	1908.3	1827.4	1636.3	1349.8	1018.0	674.4	390.0	37.1	0.5	0.0	0.0
42.5°	1439.5	1371.0	1165.4	918.1	622.4	397.7	216.4	24.2	0.0	0.0	0.0
45°	899.6	827.9	688.8	503.4	336.9	206.1	104.1	13.9	0.0	0.0	0.0
47.5°	367.3	336.9	277.2	213.3	152.5	96.9	43.3	6.2	0.0	0.0	0.0
50°	126.2	112.3	94.3	69.0	48.9	33.5	22.7	1.5	0.0	0.0	0.0
52.5°	36.6	37.1	32.5	27.8	21.6	15.5	11.3	0.0	0.0	0.0	0.0
55°	6.7	5.7	6.7	6.2	6.7	5.7	4.1	0.0	0.0	0.5	0.0
57.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.0	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0	1.5	0.5
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):**

	135°	157.5°	180°
0°	29.4	29.4	29.4
2.5°	19.1	17.0	16.0
5°	10.8	8.2	7.7
7.5°	5.7	3.6	3.1
10°	2.1	0.5	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	0.0	0.0

(END OF REPORT)