

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: P1309721

Luminaire Tested: LDSQA3D24R409030D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

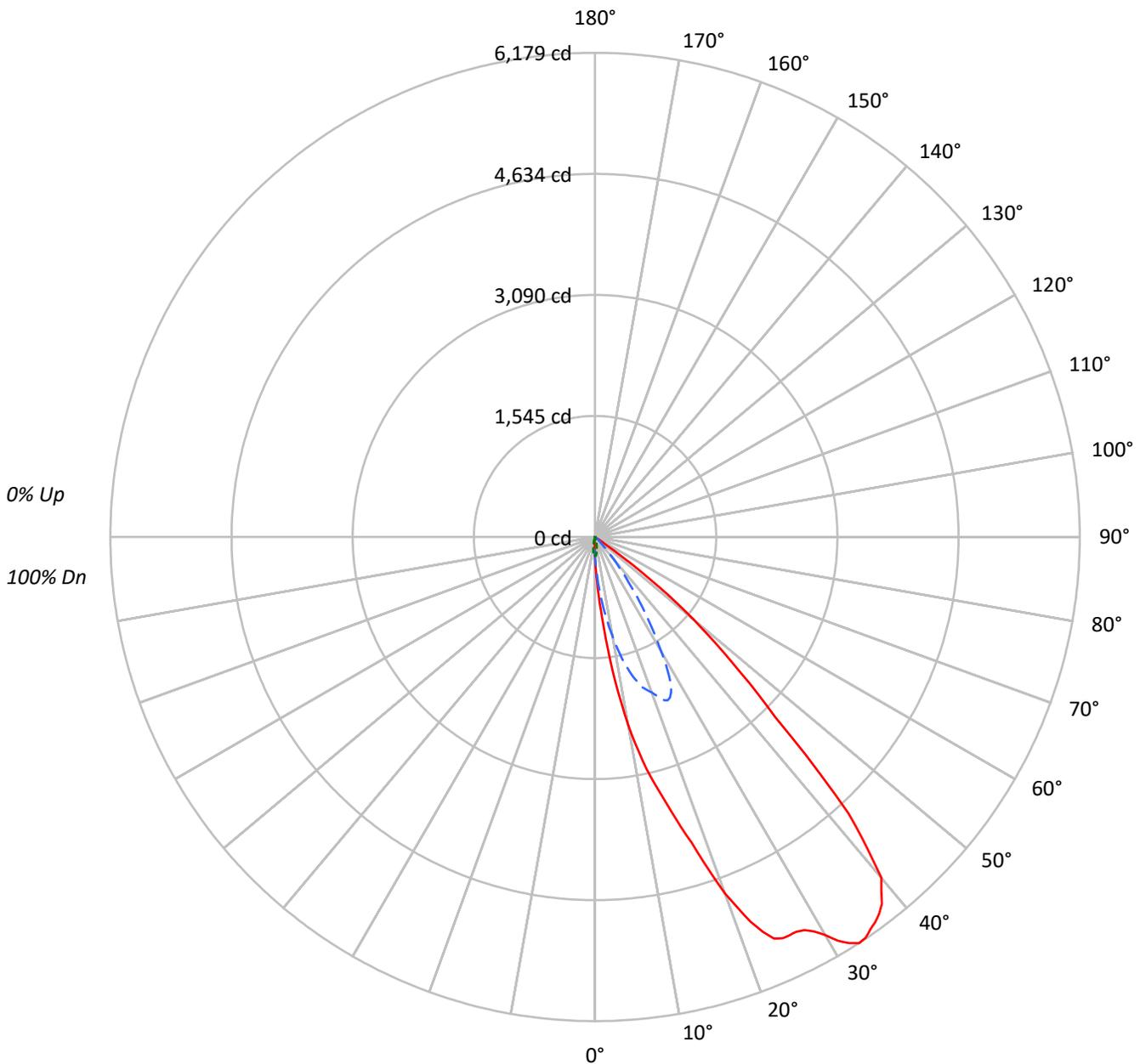
Test Method: LM-79-2019  
Report Number: P1309721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R409030D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2074.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
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

TEST NUMBER: P1309721  
CATALOG NUMBER: LDSQA3D24R409030D010 3LSQCA30R 1MB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1309721

CATALOG NUMBER: LDSQA3D24R409030D010 3LSQCA30R 1MB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	41781	41781	41781	41781	41781
5°	177324	120861	36651	6604	3302
10°	426216	224808	22717	665	0
15°	627306	326588	9539	0	0
20°	886705	387170	3501	0	0
25°	1073993	429745	0	0	0
30°	1166108	336162	0	0	0
35°	1285838	196768	0	0	0
40°	1276217	79879	0	0	0
45°	790400	23260	0	0	0
50°	440103	509	0	0	0
55°	43027	0	0	0	0
60°	0	0	654	0	0
65°	0	0	774	0	0
70°	0	957	1913	0	0
75°	0	1264	2529	0	0
80°	0	1884	3769	0	0
85°	0	3754	7509	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 794102 cd/sqm



TEST NUMBER: P1309721

CATALOG NUMBER: LDSQA3D24R409030D010 3LSQCA30R 1MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.5	2.2
10°-20°	267.3	12.9
20°-30°	610.2	29.4
30°-40°	720.5	34.7
40°-50°	385.0	18.6
50°-60°	41.8	2.0
60°-70°	0.8	0.0
70°-80°	1.5	0.1
80°-90°	1.4	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°	923.0	44.5
0°-40°	1643.5	79.2
0°-60°	2070.3	99.8
0°-90°	2074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2074.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	243	243	243	243	243	
5°	1026	699	212	38	19	144
15°	3518	1832	54	0	0	1045
25°	5652	2262	0	0	0	2566
35°	6116	936	0	0	0	3778
45°	3245	96	0	0	0	2676
55°	143	0	0	0	0	402
65°	0	0	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1309721

CATALOG NUMBER: LDSQA3D24R409030D010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6
2.5°	565.4	553.9	561.6	546.3	546.3	511.9	513.8	485.1	443.1	338.1	240.7
5°	1025.7	1071.5	1035.2	987.5	960.7	926.4	880.5	832.8	699.1	422.1	212.0
7.5°	1717.1	1713.3	1652.2	1600.6	1541.4	1449.7	1363.8	1247.3	995.1	483.2	175.7
10°	2437.2	2423.8	2355.1	2311.1	2198.5	2066.7	1890.9	1703.8	1285.5	504.2	129.9
12.5°	3037.0	3019.8	2962.5	2888.0	2763.8	2597.6	2408.6	2162.2	1591.1	481.3	84.0
15°	3518.3	3514.5	3459.1	3357.8	3228.0	3065.6	2851.7	2555.6	1831.7	422.1	53.5
17.5°	4089.4	4112.3	4013.0	3904.1	3716.9	3489.6	3228.0	2889.9	2009.4	349.5	34.4
20°	4838.1	4805.7	4714.0	4555.4	4375.9	4102.8	3732.2	3249.0	2112.5	271.2	19.1
21°	5067.3	5054.0	4958.5	4811.4	4612.7	4335.8	3953.8	3432.3	2160.3	242.6	15.3
22°	5300.4	5277.4	5202.9	5059.7	4872.5	4559.3	4139.0	3621.4	2221.4	212.0	9.6
23°	5474.2	5464.6	5407.3	5266.0	5073.1	4769.4	4339.6	3797.2	2263.4	183.4	5.7
24°	5607.9	5596.4	5539.1	5432.1	5266.0	4948.9	4542.1	3986.2	2280.6	158.5	1.9
25°	5651.8	5657.5	5623.1	5539.1	5399.7	5082.6	4693.0	4135.2	2261.5	135.6	0.0
26°	5653.7	5670.9	5646.1	5598.3	5483.7	5189.6	4834.3	4223.1	2211.8	114.6	0.0
27°	5653.7	5670.9	5646.1	5609.8	5497.1	5250.7	4910.7	4232.6	2135.4	97.4	0.0
28°	5680.4	5690.0	5657.5	5613.6	5491.4	5269.8	4931.7	4175.3	2013.2	84.0	0.0
29°	5754.9	5745.4	5691.9	5632.7	5485.6	5269.8	4868.7	4066.5	1860.4	70.7	0.0
30°	5863.8	5863.8	5779.8	5686.2	5512.4	5267.9	4767.5	3869.7	1690.4	57.3	0.0
31°	6010.9	5997.5	5913.5	5774.0	5569.7	5267.9	4618.5	3652.0	1533.8	49.7	0.0
32°	6110.2	6102.6	6022.3	5858.1	5663.3	5267.9	4458.0	3411.3	1363.8	40.1	0.0
33°	6179.0	6163.7	6072.0	5902.0	5720.6	5241.1	4278.5	3153.5	1211.0	32.5	0.0
34°	6169.4	6165.6	6070.1	5894.4	5709.1	5130.4	4070.3	2867.0	1069.6	26.7	0.0
35°	6115.9	6115.9	5999.4	5818.0	5627.0	4968.0	3864.0	2622.5	935.9	19.1	0.0
36°	6075.8	6060.5	5928.8	5726.3	5489.4	4712.1	3558.4	2376.1	792.7	15.3	0.0
37°	6016.6	5988.0	5840.9	5623.1	5294.6	4435.1	3237.5	2156.4	670.4	9.6	0.0
38°	5940.2	5896.3	5716.7	5502.8	5080.7	4116.1	2910.9	1910.0	557.7	5.7	0.0
39°	5800.8	5764.5	5579.2	5348.1	4824.8	3780.0	2593.8	1678.9	450.8	1.9	0.0
40°	5676.6	5613.6	5403.5	5138.0	4524.9	3399.9	2278.7	1451.6	355.3	0.0	0.0
42.5°	4786.6	4719.7	4671.9	4408.4	3604.2	2441.0	1591.1	930.2	185.3	0.0	0.0
45°	3245.2	3260.4	3111.4	2933.8	2378.0	1591.1	995.1	517.6	95.5	0.0	0.0
47.5°	2366.5	2326.4	2124.0	1787.8	1394.3	930.2	519.5	250.2	38.2	0.0	0.0
50°	1642.6	1566.2	1382.9	1130.7	758.3	443.1	229.2	116.5	1.9	0.0	0.0
52.5°	892.0	838.5	710.5	515.7	315.2	170.0	91.7	47.8	0.0	0.0	0.0
55°	143.3	99.3	103.1	87.9	68.8	49.7	28.7	5.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	1.9	1.9
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.8	3.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.8	3.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.8	3.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.8	3.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.8	3.8



TEST NUMBER: P1309721

CATALOG NUMBER: LDSQA3D24R409030D010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.8	3.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1309721

CATALOG NUMBER: LDSQA3D24R409030D010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
0°	242.6	242.6	242.6	242.6
2.5°	162.4	110.8	84.0	72.6
5°	93.6	38.2	21.0	19.1
7.5°	45.8	13.4	7.6	7.6
10°	19.1	3.8	0.0	0.0
12.5°	5.7	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.9	0.0	0.0	0.0
67.5°	1.9	0.0	0.0	0.0
70°	1.9	0.0	0.0	0.0
72.5°	1.9	0.0	0.0	0.0
75°	1.9	0.0	0.0	0.0
77.5°	1.9	0.0	0.0	0.0
80°	1.9	0.0	0.0	0.0



TEST NUMBER: P1309721  
CATALOG NUMBER: LDSQA3D24R409030D010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.9	0.0	0.0	0.0
85°	1.9	0.0	0.0	0.0
87.5°	1.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)