

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: P1309040

Luminaire Tested: LDSQA3D09R209030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309040  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R209030DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

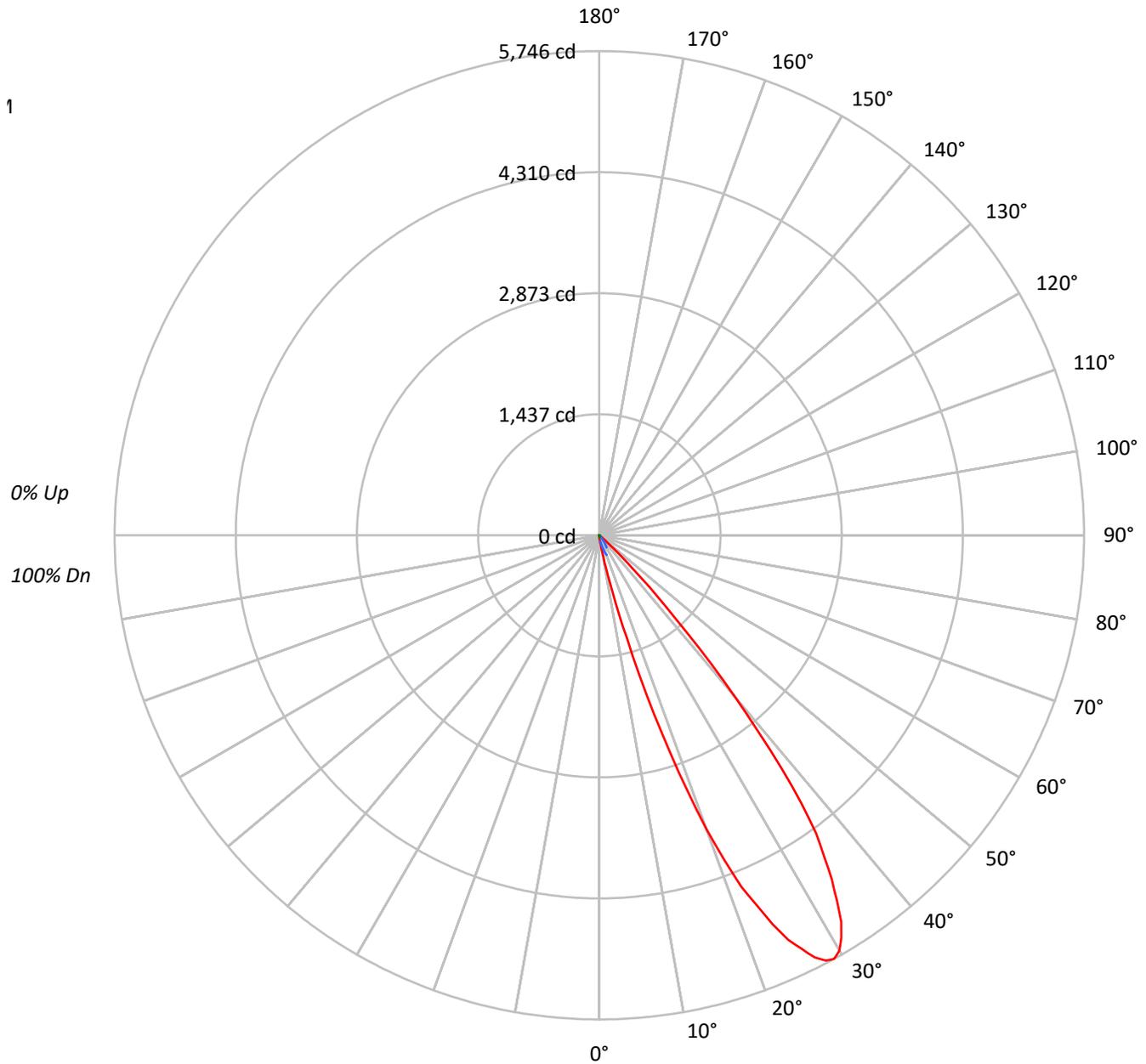
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 806.0 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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

TEST NUMBER: P1309040  
CATALOG NUMBER: LDSQA3D09R209030DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1309040

CATALOG NUMBER: LDSQA3D09R209030DE010 3LSQCA30R 1MW

**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	100				
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41				
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				

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

	0°	45°	90°	135°	180°
0°	4788	4788	4788	4788	4788
5°	10995	8212	4547	2783	2403
10°	34661	14323	3707	1539	1154
15°	224513	26459	2746	517	125
20°	677588	45306	1869	0	0
25°	1006305	45720	1102	0	0
30°	1131645	34762	438	0	0
35°	976399	20751	315	0	0
40°	562232	7059	0	0	0
45°	137124	2850	170	0	170
50°	16451	777	188	188	589
55°	2192	0	450	450	871
60°	241	0	758	758	1274
65°	285	285	1182	1182	1793
70°	352	352	1460	1460	1863
75°	0	466	1930	1464	1930
80°	0	694	2182	1488	2182
85°	0	1383	4347	1383	1383

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 138025 cd/sqm



TEST NUMBER: P1309040

CATALOG NUMBER: LDSQA3D09R209030DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.7	0.5
10°-20°	74.7	9.3
20°-30°	325.6	40.4
30°-40°	327.9	40.7
40°-50°	65.8	8.2
50°-60°	3.3	0.4
60°-70°	2.2	0.3
70°-80°	1.9	0.2
80°-90°	1.0	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°	404.0	50.1
0°-40°	731.9	90.8
0°-60°	800.9	99.4
0°-90°	806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	64	48	26	16	14	10
15°	1259	148	15	3	1	493
25°	5296	241	6	0	0	2388
35°	4644	99	2	0	0	2763
45°	563	12	1	0	1	613
55°	7	0	2	2	3	14
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1309040

CATALOG NUMBER: LDSQA3D09R209030DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	41.7	41.7	40.9	40.9	40.2	40.9	39.5	40.2	40.2	39.5	35.8
5°	63.6	65.1	64.3	64.3	63.6	64.3	62.9	61.4	60.0	60.0	47.5
7.5°	104.6	103.8	102.4	103.1	100.9	99.4	98.0	97.3	92.9	90.7	62.2
10°	198.2	202.6	198.9	198.2	185.0	184.3	175.5	163.1	152.1	146.2	81.9
12.5°	545.5	568.9	532.3	514.8	504.6	465.1	448.2	405.1	363.4	332.0	103.8
15°	1259.2	1317.0	1243.1	1248.2	1186.8	1074.2	975.5	890.6	790.5	689.6	148.4
17.5°	2467.2	2420.4	2380.2	2312.2	2187.1	2021.9	1809.1	1593.4	1406.9	1211.7	206.9
20°	3697.1	3655.4	3564.0	3415.6	3256.2	3011.2	2758.2	2434.3	2120.6	1826.6	247.2
21°	4120.5	4106.6	3956.7	3865.3	3619.6	3385.6	3093.8	2747.2	2394.1	2046.0	253.7
22°	4498.5	4415.2	4334.7	4199.5	3955.2	3700.8	3376.1	3011.2	2628.1	2241.2	254.5
23°	4760.3	4722.3	4646.3	4493.4	4250.7	3951.6	3609.4	3227.7	2824.0	2379.4	252.3
24°	5049.9	5001.6	4890.5	4712.1	4467.1	4171.7	3781.2	3402.4	2963.7	2495.7	246.4
25°	5295.6	5220.3	5088.7	4896.3	4628.7	4323.8	3931.1	3515.0	3060.9	2573.9	240.6
26°	5455.0	5414.0	5245.1	5036.0	4749.4	4434.9	4034.2	3601.3	3123.8	2609.8	231.1
27°	5621.0	5545.7	5379.7	5139.1	4828.3	4507.3	4092.7	3643.0	3145.8	2611.2	219.4
28°	5716.0	5634.2	5446.2	5193.2	4879.5	4547.5	4126.3	3656.2	3141.4	2588.6	205.5
29°	5746.0	5642.9	5459.4	5202.0	4891.9	4550.5	4121.2	3637.2	3102.6	2533.0	189.4
30°	5690.5	5585.2	5411.1	5160.3	4852.5	4513.9	4073.7	3574.3	3033.9	2453.3	174.8
31°	5569.1	5479.9	5311.7	5060.1	4764.7	4428.3	3966.2	3471.2	2916.9	2346.5	157.9
32°	5408.9	5321.2	5155.9	4928.5	4628.0	4288.7	3819.2	3310.3	2779.4	2187.1	141.1
33°	5168.4	5117.9	4969.5	4752.3	4451.7	4089.1	3621.8	3118.0	2583.4	2010.2	126.5
34°	4924.9	4861.2	4757.4	4519.8	4196.5	3834.6	3364.4	2852.5	2344.3	1812.0	112.6
35°	4644.1	4606.0	4443.0	4252.9	3928.2	3558.2	3090.9	2594.4	2065.7	1591.2	98.7
36°	4372.0	4313.5	4127.8	3926.7	3611.6	3211.6	2750.2	2283.6	1825.2	1384.2	84.1
37°	3977.2	3888.0	3755.6	3543.6	3175.0	2834.3	2413.1	1980.2	1529.0	1160.5	68.0
38°	3512.8	3471.2	3287.6	3074.1	2769.2	2446.0	2029.2	1662.1	1261.4	968.9	51.9
39°	2965.1	2964.4	2788.9	2634.6	2336.3	2045.3	1669.4	1349.1	1041.3	780.2	40.2
40°	2500.8	2414.5	2306.3	2112.5	1883.7	1636.5	1307.4	1055.9	808.0	628.9	31.4
42.5°	1311.1	1303.8	1240.2	1094.7	966.7	821.2	653.0	544.0	425.6	346.6	19.7
45°	563.0	566.7	522.8	500.9	451.2	390.5	329.8	274.9	235.5	190.9	11.7
47.5°	142.6	136.7	135.3	140.4	140.4	136.0	122.1	114.8	106.0	97.3	6.6
50°	61.4	60.0	58.5	58.5	54.8	52.6	49.0	44.6	40.9	36.6	2.9
52.5°	22.7	23.4	24.1	23.4	23.4	22.7	22.7	21.9	19.7	17.5	1.5
55°	7.3	7.3	7.3	8.0	8.0	8.8	8.8	8.8	8.8	8.0	0.0
57.5°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.7	0.0	0.7	0.7	0.0	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



TEST NUMBER: P1309040

CATALOG NUMBER: LDSQA3D09R209030DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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: P1309040

CATALOG NUMBER: LDSQA3D09R209030DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	32.2	28.5	24.1	20.5	19.7	19.0
5°	35.8	26.3	19.7	16.1	14.6	13.9
7.5°	38.8	24.1	16.1	11.7	10.2	9.5
10°	40.2	21.2	13.2	8.8	6.6	6.6
12.5°	40.9	18.3	9.5	5.8	3.7	3.7
15°	40.2	15.4	7.3	2.9	0.7	0.7
17.5°	36.6	12.4	4.4	0.7	0.0	0.0
20°	31.4	10.2	2.9	0.0	0.0	0.0
21°	30.0	8.8	2.2	0.0	0.0	0.0
22°	27.8	8.0	1.5	0.0	0.0	0.0
23°	25.6	7.3	1.5	0.0	0.0	0.0
24°	23.4	6.6	0.7	0.0	0.0	0.0
25°	21.9	5.8	0.7	0.0	0.0	0.0
26°	20.5	5.1	0.7	0.0	0.0	0.0
27°	18.3	4.4	0.0	0.0	0.0	0.0
28°	16.8	3.7	0.0	0.0	0.0	0.0
29°	14.6	2.9	0.0	0.0	0.0	0.0
30°	12.4	2.2	0.0	0.0	0.0	0.0
31°	10.2	2.2	0.0	0.0	0.0	0.0
32°	8.8	1.5	0.0	0.0	0.0	0.0
33°	7.3	1.5	0.0	0.0	0.0	0.0
34°	6.6	1.5	0.0	0.0	0.0	0.0
35°	5.8	1.5	0.0	0.0	0.0	0.0
36°	4.4	0.7	0.0	0.0	0.0	0.0
37°	3.7	0.7	0.0	0.0	0.0	0.0
38°	2.9	0.7	0.0	0.0	0.0	0.0
39°	2.2	0.0	0.0	0.0	0.0	0.0
40°	2.2	0.0	0.0	0.0	0.0	0.0
42.5°	0.7	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.7	0.0	0.0	0.7	0.7
47.5°	0.0	0.7	0.0	0.0	0.7	1.5
50°	0.0	0.7	0.7	0.7	1.5	2.2
52.5°	0.0	1.5	0.7	0.7	2.2	2.2
55°	0.7	1.5	0.7	1.5	2.9	2.9
57.5°	0.7	1.5	1.5	2.2	2.9	3.7
60°	1.5	2.2	2.2	2.2	3.7	3.7
62.5°	1.5	2.2	2.9	2.9	3.7	4.4
65°	1.5	2.9	2.9	2.9	3.7	4.4
67.5°	2.2	2.9	2.9	2.9	3.7	4.4
70°	2.2	2.9	2.9	2.9	3.7	3.7
72.5°	2.2	2.9	2.2	2.9	2.9	3.7
75°	2.2	2.9	2.2	2.2	2.9	2.9
77.5°	1.5	2.2	2.2	1.5	2.2	2.2
80°	1.5	2.2	1.5	1.5	2.2	2.2



TEST NUMBER: P1309040  
CATALOG NUMBER: LDSQA3D09R209030DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.2	1.5	0.7	1.5	1.5
85°	1.5	2.2	1.5	0.7	0.7	0.7
87.5°	1.5	2.2	1.5	0.7	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)