

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: P1312462

Luminaire Tested: LDSQA3D09R659050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312462  
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: LDSQA3D09R659050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

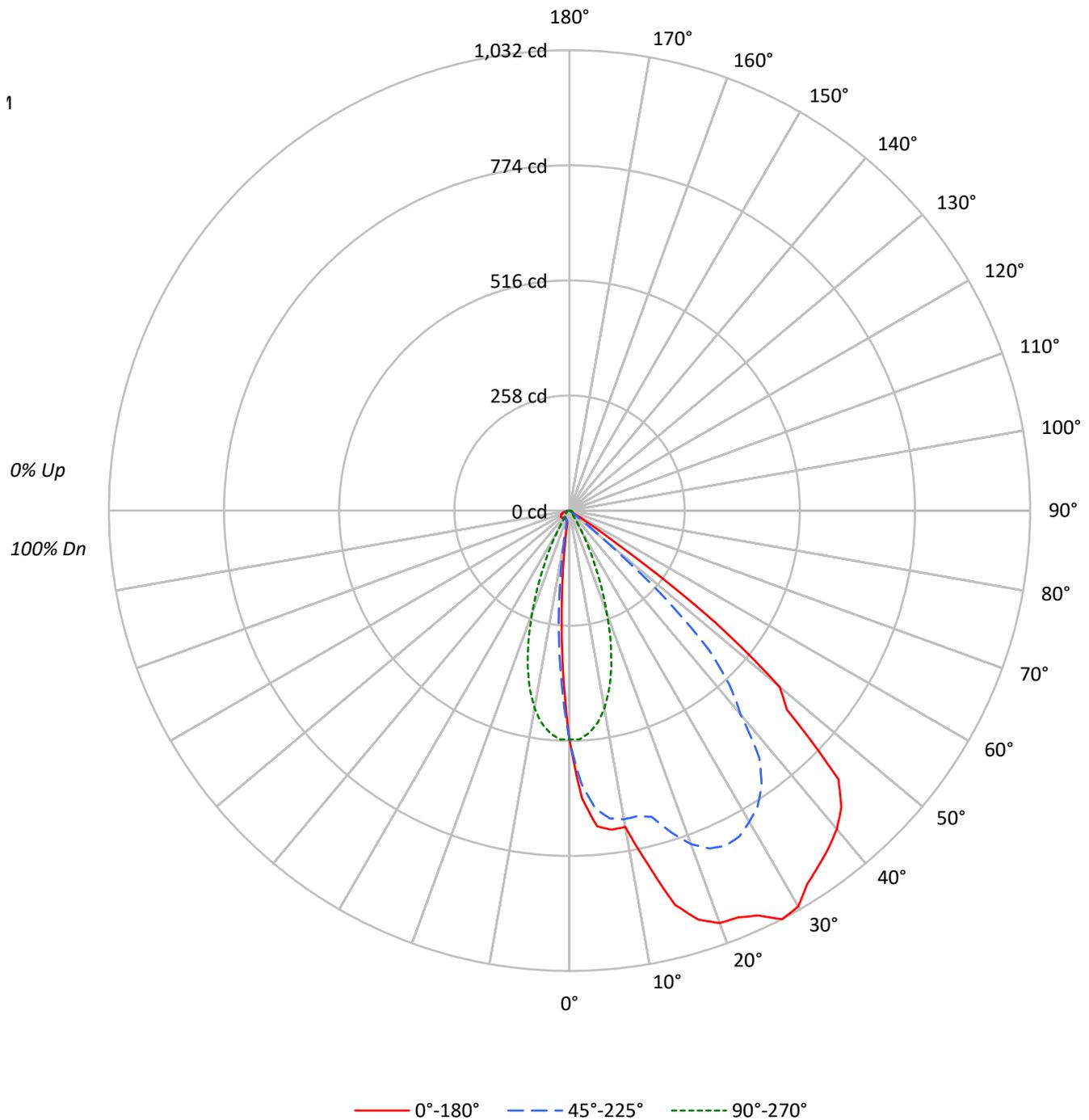
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 769.1 lumens  
Efficiency: N/A  
Efficacy: 69.3 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): 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: P1312462  
CATALOG NUMBER: LDSQA3D09R659050DE010 3LSQCA30R 1MW

### 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	109	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°	88367	88367	88367	88367	88367
5°	122814	115916	86492	47525	33435
10°	125913	122853	78678	13273	4897
15°	163143	126663	64401	4279	4137
20°	180306	145741	44811	3812	3959
25°	190274	157475	25369	3649	3953
30°	203738	160186	11435	3659	4136
35°	204484	157768	3700	3869	4541
40°	209488	134038	2518	4137	5036
45°	207488	108019	2533	4481	5456
50°	164644	25480	2572	4930	6216
55°	39124	1441	2642	5525	6966
60°	1378	1653	3031	5787	7440
65°	1630	1630	2934	6194	8150
70°	1209	1611	2820	6043	8460
75°	1065	1597	2662	6388	8517
80°	793	1587	3174	6347	8728
85°	1581	3162	3162	6323	7904

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 207878 cd/sqm



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CATALOG NUMBER: LDSQA3D09R659050DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.8	5.6
10°-20°	112.8	14.7
20°-30°	177.1	23.0
30°-40°	202.6	26.3
40°-50°	162.9	21.2
50°-60°	53.0	6.9
60°-70°	9.4	1.2
70°-80°	6.2	0.8
80°-90°	2.2	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°	332.7	43.3
0°-40°	535.3	69.6
0°-60°	751.2	97.7
0°-90°	769.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	769.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	513	513	513	513	513	
5°	710	670	500	275	193	67
15°	915	710	361	24	23	255
25°	1001	829	134	19	21	467
35°	973	750	18	18	22	611
45°	852	444	10	18	22	613
55°	130	5	9	18	23	186
65°	4	4	7	15	20	4
75°	2	2	4	10	13	2
85°	1	2	2	3	4	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°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	645.7	643.3	646.5	640.9	640.1	634.5	631.3	629.7	622.5	612.9	604.2
5°	710.4	700.9	703.2	702.5	698.5	696.1	692.9	688.9	679.3	670.5	659.3
7.5°	721.6	713.6	715.2	716.0	713.6	712.8	712.0	710.4	704.0	696.1	686.5
10°	720.0	712.0	711.2	708.8	706.4	707.2	707.2	707.2	705.6	702.5	699.3
12.5°	812.7	801.5	799.1	782.4	767.2	740.8	724.0	708.0	700.9	701.7	699.3
15°	915.0	914.2	906.2	890.3	864.7	840.7	802.3	773.6	736.8	710.4	699.3
17.5°	961.4	960.6	953.4	939.8	921.4	899.0	871.1	837.5	796.7	756.0	722.4
20°	983.8	989.3	981.4	970.2	952.6	931.8	905.4	875.1	836.7	795.2	755.2
22.5°	986.9	994.1	986.9	979.0	966.2	952.6	930.2	899.0	859.9	819.9	780.8
25°	1001.3	1003.7	988.5	978.2	966.2	956.6	939.0	911.8	871.9	828.7	790.4
27.5°	1032.5	1022.1	990.1	975.8	964.6	955.8	939.0	911.0	867.9	823.9	784.0
30°	1024.5	1020.5	992.5	979.0	969.4	960.6	939.8	903.8	851.9	805.5	764.0
32.5°	991.7	999.7	990.1	985.3	980.6	969.4	939.0	890.3	831.9	784.8	728.8
35°	972.6	982.2	983.0	983.0	977.4	960.6	924.6	870.3	811.9	750.4	675.3
37.5°	953.4	961.4	966.2	969.4	961.4	937.4	891.8	843.1	779.2	698.5	566.6
40°	931.8	937.4	941.4	943.0	931.0	899.8	858.3	803.1	731.2	596.2	505.9
42.5°	901.4	904.6	903.8	903.0	890.3	855.9	816.7	759.2	616.9	531.4	421.9
45°	851.9	848.7	853.5	853.5	836.7	811.1	759.2	647.3	552.2	443.5	271.7
47.5°	660.1	662.5	685.7	723.2	746.4	739.2	668.9	566.6	464.3	290.9	90.3
50°	614.5	612.1	612.9	616.9	619.3	599.4	549.0	478.7	306.9	95.1	6.4
52.5°	412.4	414.8	433.1	475.5	489.1	474.7	426.7	319.7	111.9	6.4	5.6
55°	130.3	139.1	149.4	171.8	211.0	235.7	231.0	113.5	7.2	4.8	5.6
57.5°	4.8	4.8	6.4	11.2	21.6	35.2	36.8	7.2	5.6	5.6	5.6
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.8	4.8	4.8	4.8	4.8
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	4.8	4.8	4.8
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0	4.0	4.0	4.0
70°	2.4	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.0
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	3.2	3.2
75°	1.6	1.6	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4
80°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P1312462

CATALOG NUMBER: LDSQA3D09R659050DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	513.1	513.1	513.1	513.1	513.1	513.1	513.1	513.1
2.5°	599.4	589.8	570.6	513.1	453.1	393.2	355.6	346.0
5°	646.5	635.3	608.2	500.3	378.8	274.9	215.8	193.4
7.5°	675.3	661.7	629.7	480.3	294.9	159.8	95.9	76.7
10°	688.1	676.1	640.1	449.9	213.4	75.9	33.6	28.0
12.5°	693.7	684.1	644.1	410.0	139.1	33.6	24.8	24.0
15°	696.1	685.7	642.5	361.2	79.1	24.0	23.2	23.2
17.5°	698.5	686.5	632.9	305.3	44.0	22.4	21.6	22.4
20°	717.6	683.3	616.1	244.5	28.8	20.8	20.8	21.6
22.5°	736.8	682.5	586.6	187.0	22.4	20.0	20.8	20.8
25°	743.2	674.5	549.0	133.5	19.2	19.2	20.0	20.8
27.5°	731.2	651.3	498.7	90.3	16.8	19.2	20.0	20.8
30°	703.2	612.1	437.9	57.5	16.0	18.4	20.0	20.8
32.5°	651.3	534.6	370.0	34.4	15.2	18.4	20.8	20.8
35°	547.4	448.3	293.3	17.6	15.2	18.4	20.8	21.6
37.5°	478.7	374.0	204.6	12.0	15.2	18.4	20.8	21.6
40°	397.2	270.1	85.5	11.2	15.2	18.4	20.8	22.4
42.5°	274.9	117.5	13.6	10.4	14.4	18.4	21.6	22.4
45°	99.1	15.2	6.4	10.4	14.4	18.4	21.6	22.4
47.5°	8.8	5.6	6.4	10.4	14.4	18.4	21.6	23.2
50°	5.6	5.6	5.6	9.6	14.4	18.4	21.6	23.2
52.5°	5.6	5.6	5.6	9.6	13.6	18.4	22.4	23.2
55°	5.6	5.6	5.6	8.8	13.6	18.4	21.6	23.2
57.5°	5.6	5.6	6.4	8.8	13.6	17.6	21.6	22.4
60°	5.6	5.6	5.6	8.8	12.8	16.8	20.8	21.6
62.5°	4.8	5.6	5.6	8.0	12.0	16.0	20.0	20.8
65°	4.8	4.8	5.6	7.2	11.2	15.2	18.4	20.0
67.5°	4.0	4.8	4.8	6.4	9.6	13.6	16.8	18.4
70°	4.0	4.0	4.0	5.6	8.8	12.0	16.0	16.8
72.5°	3.2	4.0	4.0	4.8	7.2	10.4	13.6	15.2
75°	3.2	3.2	3.2	4.0	6.4	9.6	12.0	12.8
77.5°	2.4	2.4	3.2	3.2	5.6	7.2	10.4	11.2
80°	2.4	2.4	2.4	3.2	4.0	6.4	8.0	8.8
82.5°	1.6	1.6	1.6	2.4	3.2	4.0	5.6	6.4
85°	1.6	1.6	1.6	1.6	2.4	3.2	4.0	4.0
87.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)