

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: P1312553

Luminaire Tested: LDSQA3D13R309050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R309050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

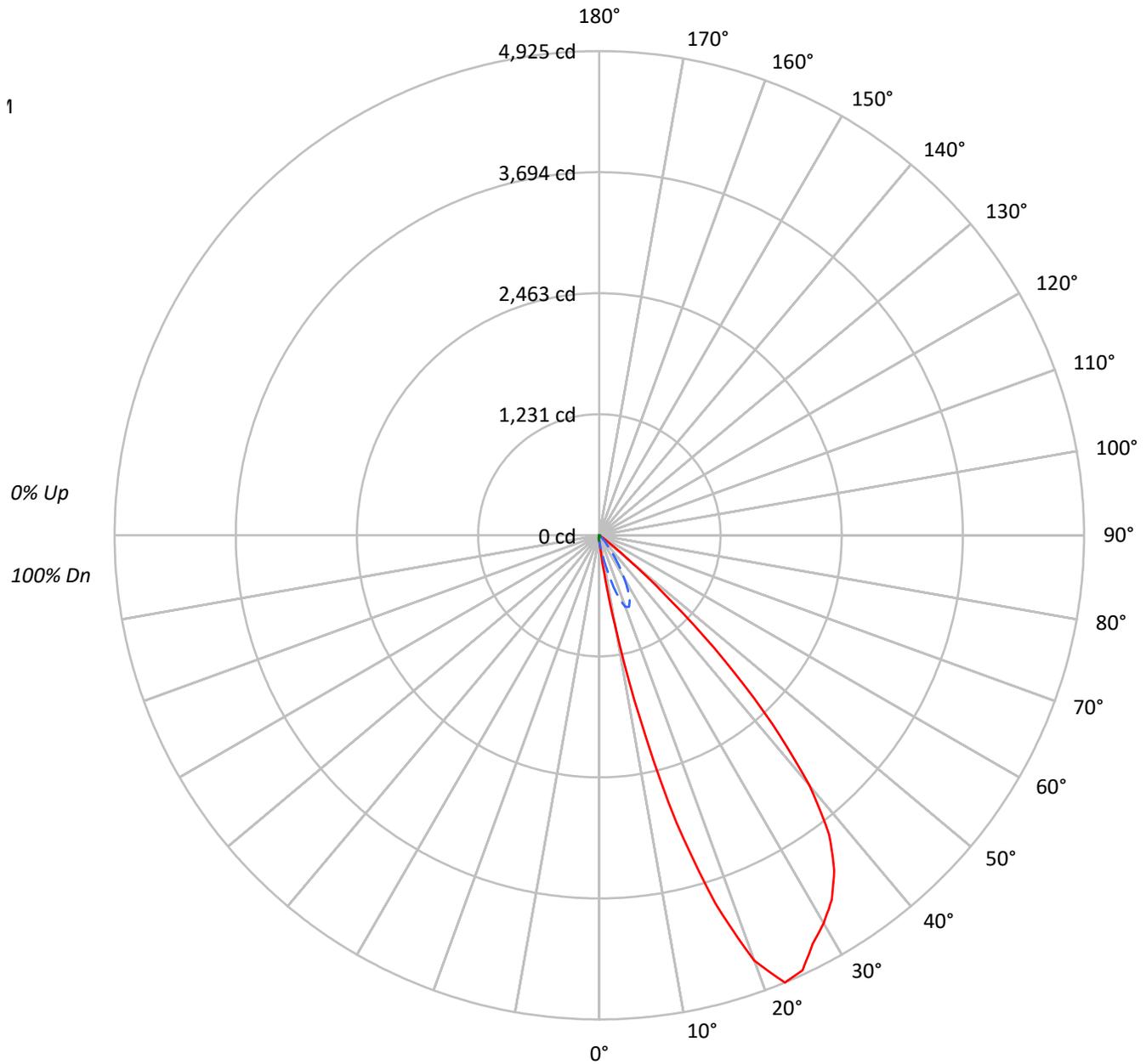
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1161.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1312553  
CATALOG NUMBER: LDSQA3D13R309050DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1312553

CATALOG NUMBER: LDSQA3D13R309050DE010 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
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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	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	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

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

	0°	45°	90°	135°	180°
0°	9507	9507	9507	9507	9507
5°	28612	19069	8990	4028	3302
10°	165681	40450	7048	1854	1294
15°	538906	91734	4921	374	196
20°	843269	141929	3116	0	0
25°	927748	138700	1615	0	0
30°	906131	100009	636	0	0
35°	874556	56871	231	0	0
40°	745820	24078	0	0	0
45°	437701	9036	268	0	268
50°	106315	1715	295	295	857
55°	9248	0	631	961	1261
60°	379	0	723	1102	1826
65°	448	448	1304	1304	2160
70°	554	554	1611	1611	2115
75°	0	732	2129	2129	2129
80°	0	1091	3174	2083	2083
85°	0	2174	6323	2174	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 437701 cd/sqm



TEST NUMBER: P1312553

CATALOG NUMBER: LDSQA3D13R309050DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.1	0.9
10°-20°	159.6	13.7
20°-30°	405.5	34.9
30°-40°	404.2	34.8
40°-50°	163.7	14.1
50°-60°	11.3	1.0
60°-70°	2.6	0.2
70°-80°	2.6	0.2
80°-90°	1.5	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°	575.2	49.5
0°-40°	979.4	84.4
0°-60°	1154.4	99.4
0°-90°	1161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	166	110	52	23	19	38
15°	3022	514	28	2	1	880
25°	4882	730	8	0	0	2204
35°	4160	270	1	0	0	2550
45°	1797	37	1	0	1	1371
55°	31	0	2	3	4	80
65°	1	1	3	3	5	1
75°	0	1	3	3	3	0
85°	0	1	3	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1312553

CATALOG NUMBER: LDSQA3D13R309050DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.2
2.5°	91.2	92.3	92.3	90.2	89.1	89.1	85.9	84.9	81.7	78.5	67.9
5°	165.5	162.3	158.1	158.1	148.5	143.2	135.8	127.3	120.9	110.3	78.5
7.5°	375.6	350.1	342.7	333.1	297.0	268.4	235.5	206.9	180.4	158.1	87.0
10°	947.4	897.5	856.1	772.3	667.3	566.5	473.2	364.9	290.7	231.3	93.4
12.5°	1908.5	1841.7	1762.1	1609.4	1413.1	1161.7	938.9	701.2	492.3	340.5	95.5
15°	3022.5	2909.0	2784.8	2590.7	2269.2	1908.5	1506.5	1127.7	790.4	514.5	93.4
17.5°	3930.6	3886.0	3702.5	3437.3	3043.7	2579.0	2083.6	1565.9	1066.2	673.7	87.0
20°	4601.1	4570.3	4348.6	4066.4	3622.9	3090.4	2461.3	1839.6	1258.2	774.4	77.4
22.5°	4924.6	4919.3	4759.1	4470.6	4000.6	3397.0	2704.2	1997.7	1317.6	788.2	64.7
25°	4882.2	4901.3	4810.1	4595.8	4144.9	3523.2	2776.3	1997.7	1274.1	729.9	54.1
27.5°	4689.1	4701.9	4644.6	4480.1	4060.0	3432.0	2675.6	1869.3	1147.9	627.0	44.6
30°	4556.5	4561.8	4490.7	4314.6	3869.1	3224.0	2437.9	1631.6	956.9	502.9	32.9
32.5°	4395.3	4394.2	4311.4	4109.9	3618.7	2932.3	2136.6	1348.4	735.2	381.9	19.1
35°	4159.7	4133.2	4020.8	3788.4	3245.3	2539.8	1751.5	1026.9	529.4	270.5	11.7
37.5°	3836.2	3767.2	3608.1	3297.2	2721.2	1991.3	1298.5	721.4	361.8	179.3	7.4
40°	3317.4	3244.2	3027.8	2650.1	2058.1	1433.3	875.2	470.0	228.1	107.1	4.2
42.5°	2601.3	2551.4	2259.7	1883.1	1359.0	914.5	526.2	278.0	128.4	61.5	1.1
45°	1797.1	1732.4	1503.3	1184.0	815.8	507.1	294.9	145.3	73.2	37.1	0.0
47.5°	991.9	912.4	779.8	613.2	410.6	266.3	148.5	78.5	41.4	18.0	0.0
50°	396.8	393.6	313.0	222.8	157.0	120.9	74.3	42.4	21.2	6.4	1.1
52.5°	139.0	139.0	119.9	97.6	76.4	55.2	37.1	20.2	7.4	2.1	1.1
55°	30.8	33.9	31.8	29.7	28.6	24.4	15.9	7.4	2.1	0.0	1.1
57.5°	3.2	3.2	3.2	4.2	5.3	5.3	4.2	2.1	0.0	0.0	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	2.1
62.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	1.1	1.1	2.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2
75°	0.0	0.0	1.1	1.1	0.0	1.1	1.1	1.1	1.1	1.1	3.2
77.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.1
82.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.1
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: P1312553

CATALOG NUMBER: LDSQA3D13R309050DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	90°	112.5°	135°	157.5°	180°
0°	55.2	55.2	55.2	55.2	55.2
2.5°	55.2	43.5	36.1	31.8	30.8
5°	52.0	32.9	23.3	20.2	19.1
7.5°	46.7	24.4	15.9	12.7	11.7
10°	40.3	18.0	10.6	7.4	7.4
12.5°	33.9	13.8	6.4	3.2	2.1
15°	27.6	8.5	2.1	1.1	1.1
17.5°	21.2	5.3	0.0	0.0	0.0
20°	17.0	2.1	0.0	0.0	0.0
22.5°	12.7	1.1	0.0	0.0	0.0
25°	8.5	0.0	0.0	0.0	0.0
27.5°	5.3	0.0	0.0	0.0	0.0
30°	3.2	0.0	0.0	0.0	0.0
32.5°	1.1	0.0	0.0	0.0	0.0
35°	1.1	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	1.1	0.0	0.0	1.1	1.1
47.5°	1.1	1.1	1.1	2.1	2.1
50°	1.1	1.1	1.1	2.1	3.2
52.5°	2.1	1.1	2.1	3.2	3.2
55°	2.1	2.1	3.2	4.2	4.2
57.5°	2.1	2.1	3.2	4.2	4.2
60°	2.1	2.1	3.2	4.2	5.3
62.5°	3.2	3.2	3.2	4.2	4.2
65°	3.2	3.2	3.2	4.2	5.3
67.5°	3.2	3.2	3.2	4.2	5.3
70°	3.2	3.2	3.2	4.2	4.2
72.5°	4.2	3.2	3.2	4.2	4.2
75°	3.2	3.2	3.2	3.2	3.2
77.5°	3.2	3.2	2.1	3.2	3.2
80°	3.2	2.1	2.1	2.1	2.1
82.5°	3.2	2.1	2.1	2.1	2.1
85°	3.2	2.1	1.1	1.1	1.1
87.5°	3.2	2.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)