

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: P1311066

Luminaire Tested: LDSQA3D02R709040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311066  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

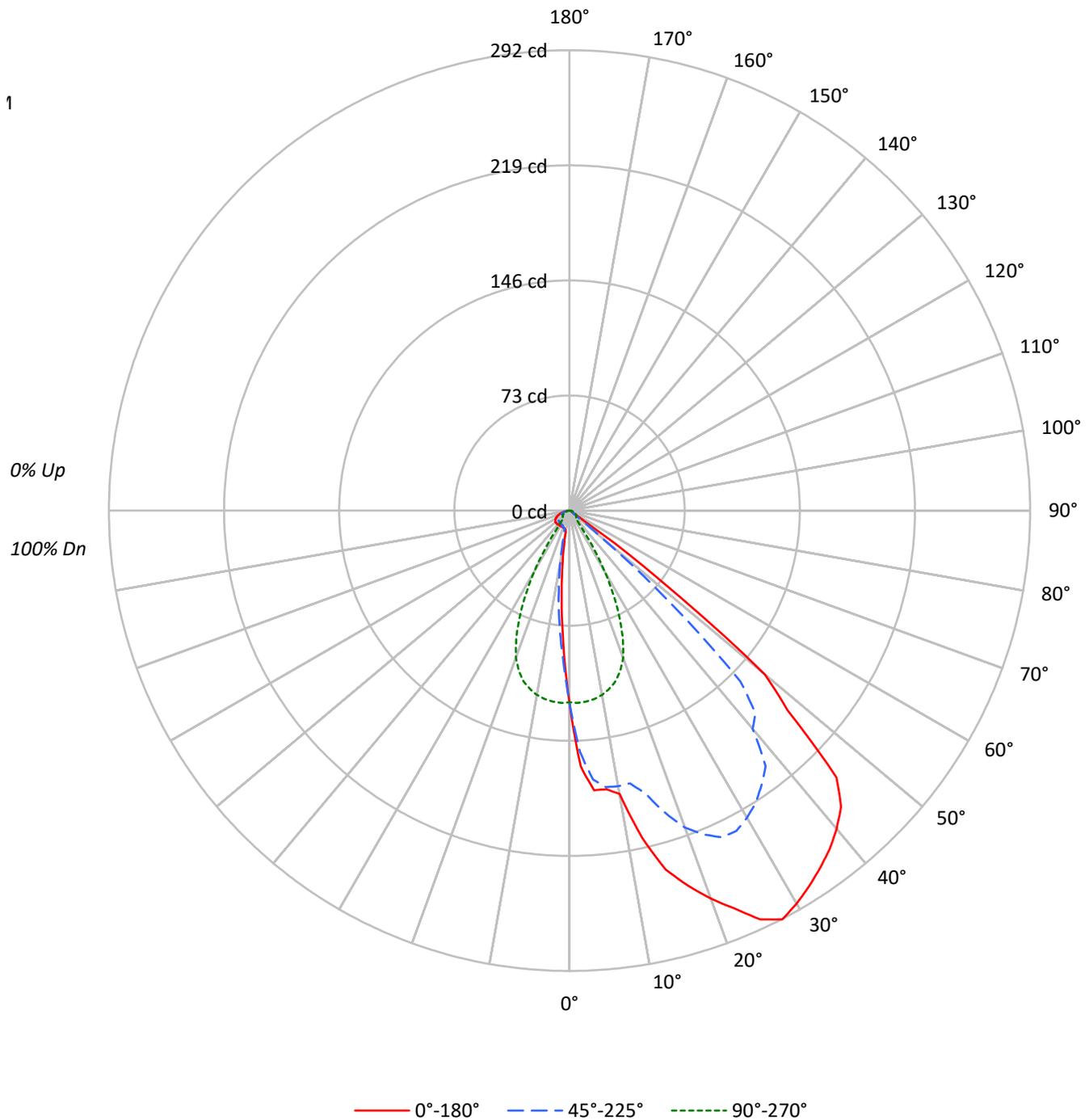
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 231.0 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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

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### 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

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

	0°	45°	90°	135°	180°
0°	20942	20942	20942	20942	20942
5°	30773	29597	21022	12551	9837
10°	31898	31041	20758	5998	2431
15°	42007	33092	20005	2157	2104
20°	48000	39203	18199	2071	2108
25°	54348	43440	14290	1995	2090
30°	57234	44725	8869	1989	2247
35°	58196	44635	2922	2039	2376
40°	59218	40603	1416	2181	2585
45°	58284	37289	1461	2289	2801
50°	43324	6886	1474	2519	3081
55°	3453	931	1561	2672	3303
60°	723	999	1550	2721	3444
65°	734	978	1508	2690	3505
70°	655	906	1460	2518	3424
75°	532	865	1198	2462	3327
80°	496	793	1289	2380	3075
85°	593	988	1581	1976	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 58990 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.1	4.8
10°-20°	31.1	13.5
20°-30°	52.3	22.6
30°-40°	62.8	27.2
40°-50°	49.8	21.6
50°-60°	15.9	6.9
60°-70°	4.5	1.9
70°-80°	2.7	1.1
80°-90°	0.8	0.4
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°	94.5	40.9
0°-40°	157.3	68.1
0°-60°	223.0	96.6
0°-90°	231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	122	122	122	122	122	
5°	178	171	122	73	57	17
15°	236	186	112	12	12	66
25°	286	229	75	10	11	131
35°	277	212	14	10	11	173
45°	239	153	6	9	12	172
55°	12	3	5	9	11	36
65°	2	2	4	7	9	2
75°	1	1	2	4	5	1
85°	0	0	1	1	1	0
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°	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6
2.5°	162.2	163.3	163.3	162.0	162.5	160.4	158.8	156.5	156.0	153.1	149.4
5°	178.0	177.5	177.5	176.4	176.9	176.1	175.4	174.8	173.3	171.2	169.1
7.5°	178.2	178.8	179.0	178.8	179.8	179.0	179.0	179.0	178.0	176.9	174.8
10°	182.4	181.6	180.9	179.0	178.0	177.2	177.2	177.5	178.0	177.5	176.1
12.5°	212.6	209.7	208.4	203.9	200.5	194.8	188.2	183.2	178.8	177.2	176.1
15°	235.6	235.1	232.5	228.3	224.1	217.3	209.7	202.1	194.0	185.6	179.5
17.5°	249.3	248.2	245.6	241.1	236.2	229.9	223.8	218.1	210.2	200.8	191.1
20°	261.9	259.5	256.1	250.8	245.9	239.8	233.3	227.8	221.2	213.9	202.6
22.5°	273.1	271.0	265.5	258.4	253.5	247.7	241.9	236.7	230.7	222.3	212.0
25°	286.0	281.2	272.3	263.2	257.1	252.4	248.2	244.0	237.7	228.6	216.5
27.5°	292.3	285.7	276.0	266.8	261.1	256.1	251.6	247.4	240.4	229.1	215.2
30°	287.8	284.1	277.3	270.2	265.5	260.8	255.6	249.3	238.0	224.9	212.0
32.5°	282.6	280.7	277.6	273.4	270.5	265.8	258.4	248.2	232.5	219.7	205.8
35°	276.8	276.0	275.0	273.1	271.3	266.8	257.7	242.7	227.0	212.3	198.9
37.5°	270.8	270.0	270.8	270.5	268.9	263.2	249.3	235.4	219.1	204.2	178.2
40°	263.4	262.9	264.2	265.5	263.7	256.1	241.1	224.4	210.0	180.6	171.7
42.5°	254.8	254.5	256.9	257.9	255.3	244.0	226.5	214.1	183.7	174.3	153.3
45°	239.3	239.8	240.9	242.2	240.6	228.3	212.3	189.8	176.4	153.1	87.3
47.5°	187.4	187.9	193.2	204.2	211.8	207.6	194.0	177.2	157.8	87.5	27.5
50°	161.7	161.2	161.5	164.1	170.1	175.9	171.7	162.5	94.1	25.7	3.4
52.5°	71.0	78.9	87.3	110.9	126.1	142.1	145.2	101.7	30.7	3.4	3.4
55°	11.5	12.1	15.2	22.3	40.1	60.5	73.4	34.1	3.1	3.1	3.1
57.5°	2.4	2.4	2.4	2.6	3.9	8.4	9.7	2.9	2.9	2.9	3.1
60°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.6	2.6	2.9	2.9
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.4	2.6	2.6	2.9
65°	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.1	2.4	2.4	2.6
67.5°	1.6	1.6	1.6	1.6	1.8	1.8	1.8	2.1	2.1	2.1	2.4
70°	1.3	1.3	1.3	1.3	1.6	1.6	1.6	1.6	1.8	1.8	1.8
72.5°	1.0	1.0	1.0	1.0	1.3	1.3	1.3	1.3	1.6	1.6	1.6
75°	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.3
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8
82.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	121.6	121.6	121.6	121.6	121.6	121.6	121.6	121.6
2.5°	147.0	143.4	138.4	122.1	107.2	93.6	86.8	86.0
5°	165.7	162.2	153.9	121.6	93.1	72.6	60.3	56.9
7.5°	172.7	169.8	162.5	120.6	79.7	52.2	38.3	33.0
10°	174.6	172.7	166.4	118.7	65.8	34.3	18.1	13.9
12.5°	175.4	174.0	168.0	115.9	51.9	17.8	12.3	12.3
15°	176.7	175.4	169.6	112.2	38.3	12.1	11.8	11.8
17.5°	182.4	178.2	171.7	106.7	25.2	11.5	11.5	11.5
20°	191.9	182.7	172.7	99.3	15.7	11.3	11.3	11.5
22.5°	199.7	187.4	172.5	88.3	11.5	10.7	11.0	11.3
25°	203.1	189.5	170.1	75.2	10.0	10.5	11.0	11.0
27.5°	202.6	190.3	168.0	60.3	9.4	10.2	10.7	11.3
30°	199.7	188.2	163.3	44.6	8.9	10.0	10.7	11.3
32.5°	194.8	180.1	153.9	28.8	8.6	10.0	10.7	11.3
35°	178.5	167.0	140.2	13.9	8.4	9.7	11.0	11.3
37.5°	169.1	153.1	106.9	6.8	8.1	9.7	11.0	11.3
40°	153.9	114.3	48.2	6.3	8.1	9.7	11.0	11.5
42.5°	96.7	46.9	7.9	6.0	7.9	9.7	11.0	11.5
45°	35.4	6.3	4.2	6.0	7.9	9.4	11.0	11.5
47.5°	3.7	3.7	3.9	5.8	7.6	9.4	11.0	11.5
50°	3.4	3.7	3.9	5.5	7.3	9.4	10.7	11.5
52.5°	3.4	3.7	3.9	5.5	7.1	9.2	10.7	11.5
55°	3.4	3.7	3.7	5.2	6.8	8.9	10.5	11.0
57.5°	3.1	3.4	3.7	5.0	6.6	8.4	10.2	10.7
60°	3.1	3.4	3.7	4.5	6.3	7.9	9.7	10.0
62.5°	2.9	3.1	3.4	4.2	5.8	7.3	8.9	9.4
65°	2.9	2.9	3.1	3.7	5.2	6.6	8.1	8.6
67.5°	2.4	2.6	2.6	3.1	4.5	5.8	7.3	7.9
70°	2.1	2.1	2.4	2.9	3.9	5.0	6.3	6.8
72.5°	1.8	1.8	1.8	2.4	3.4	4.5	5.5	6.0
75°	1.6	1.6	1.6	1.8	2.9	3.7	4.7	5.0
77.5°	1.3	1.3	1.3	1.6	2.4	3.1	3.7	4.2
80°	1.0	1.0	1.0	1.3	1.8	2.4	2.9	3.1
82.5°	0.8	0.8	0.8	1.0	1.3	1.6	2.1	2.1
85°	0.5	0.5	0.5	0.8	0.8	1.0	1.3	1.3
87.5°	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)