

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: P1307710

Luminaire Tested: LDSQA3D02R709027DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709027DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

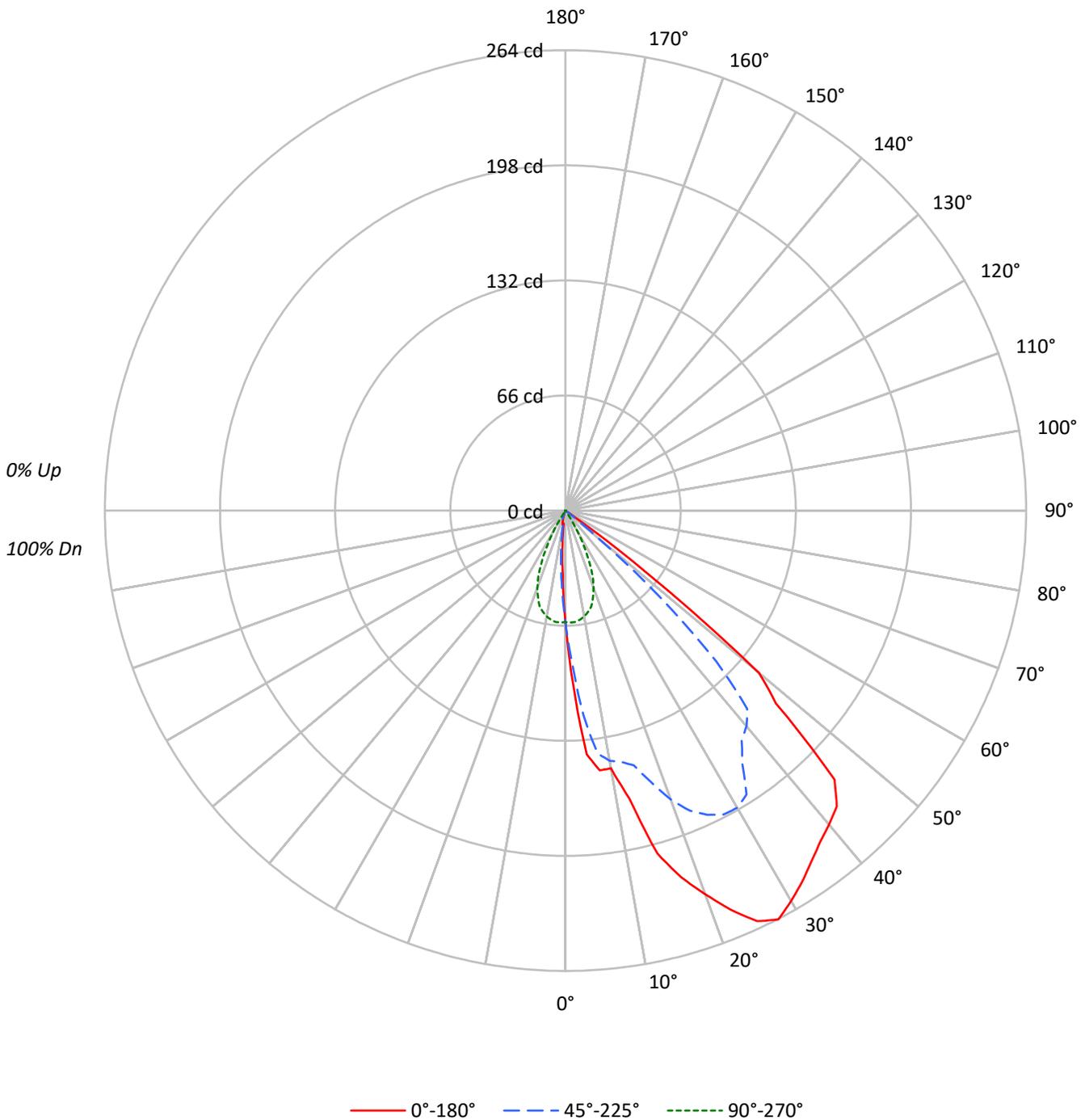
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 171.9 lumens  
Efficiency: N/A  
Efficacy: 47.8 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
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	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	10988	10988	10988	10988	10988
5°	24255	20348	11082	5031	3319
10°	26232	25462	10790	1399	1451
15°	36301	26959	10163	1426	1034
20°	42886	32293	8632	843	312
25°	49350	36580	6081	133	0
30°	51407	39137	2804	0	0
35°	51636	37108	147	0	0
40°	52833	36286	0	0	0
45°	53096	29739	0	0	0
50°	38770	6189	0	0	0
55°	2192	0	0	0	0
60°	0	69	69	0	0
65°	0	0	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	198	198	0
85°	0	395	395	395	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 54095 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.0	4.1
10°-20°	23.3	13.6
20°-30°	41.9	24.4
30°-40°	51.0	29.6
40°-50°	39.3	22.9
50°-60°	9.2	5.3
60°-70°	0.0	0.0
70°-80°	0.1	0.1
80°-90°	0.1	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°	72.2	42.0
0°-40°	123.2	71.6
0°-60°	171.7	99.8
0°-90°	171.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	171.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	140	118	64	29	19	13
15°	204	151	57	8	6	57
25°	260	192	32	1	0	118
35°	246	176	1	0	0	154
45°	218	122	0	0	0	154
55°	7	0	0	0	0	30
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	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°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
2.5°	99.5	99.5	100.0	99.8	97.6	96.6	93.4	91.7	91.3	87.4	85.9
5°	140.3	140.5	139.3	139.1	136.7	135.0	132.3	128.2	124.0	117.7	112.1
7.5°	150.2	150.0	149.8	149.8	149.3	148.3	147.1	145.9	144.2	140.3	135.9
10°	150.0	150.0	149.8	149.8	149.5	149.8	149.5	148.8	148.1	145.6	143.2
12.5°	168.9	167.5	165.5	162.6	157.8	154.1	150.0	148.8	148.3	147.6	146.1
15°	203.6	202.4	198.3	193.2	188.4	180.1	173.5	164.6	157.5	151.2	148.1
17.5°	220.4	221.1	216.5	213.4	208.7	202.2	194.4	185.2	175.2	163.4	153.9
20°	234.0	234.7	230.8	227.7	222.3	215.5	208.7	198.8	189.3	176.2	163.8
22.5°	247.8	248.3	244.7	240.0	234.0	226.9	218.2	208.0	197.8	186.2	173.1
25°	259.7	259.2	253.2	246.6	240.8	233.3	224.8	214.8	205.1	192.5	180.1
27.5°	264.3	264.1	257.3	251.0	244.2	234.0	226.5	217.7	207.5	196.4	183.7
30°	258.5	262.4	258.0	253.4	245.1	235.0	227.7	217.2	207.8	196.8	182.5
32.5°	252.4	257.3	255.8	253.6	243.9	235.9	226.5	216.7	205.6	193.0	171.1
35°	245.6	250.7	251.0	248.5	239.8	231.8	223.1	212.9	200.2	176.5	160.4
37.5°	239.6	244.4	245.9	240.8	234.0	223.3	215.3	204.6	181.8	165.8	157.5
40°	235.0	238.6	240.8	232.8	226.0	215.5	206.3	187.6	167.0	161.4	149.8
42.5°	230.1	233.5	234.5	225.7	215.3	205.3	192.0	168.4	162.4	154.1	122.8
45°	218.0	222.1	219.7	211.2	203.4	193.0	173.1	162.9	156.3	122.1	75.5
47.5°	163.6	168.2	174.8	177.2	179.9	172.3	161.4	157.8	128.4	74.0	23.5
50°	144.7	143.9	143.9	145.1	147.3	149.8	152.9	133.0	77.2	23.1	0.0
52.5°	59.0	61.9	76.2	89.1	103.9	118.7	123.3	81.6	30.1	0.5	0.0
55°	7.3	7.3	10.2	17.5	28.9	46.6	52.4	26.2	2.2	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	1.9	5.3	3.6	1.0	0.2	0.2	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
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°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
2.5°	83.5	80.6	76.5	64.3	53.9	44.7	39.3	36.7
5°	106.8	99.8	90.3	64.1	43.7	29.1	21.8	19.2
7.5°	129.1	121.1	105.1	63.1	33.5	17.0	9.5	7.5
10°	138.8	133.0	118.7	61.7	24.3	8.0	8.0	8.3
12.5°	142.7	138.4	126.7	59.5	16.0	7.8	8.3	7.8
15°	145.4	141.3	130.6	57.0	9.2	8.0	6.6	5.8
17.5°	146.8	142.0	131.8	52.4	6.1	6.8	4.1	3.4
20°	151.5	143.7	132.8	47.1	5.8	4.6	2.2	1.7
22.5°	159.2	147.1	133.0	40.5	4.6	2.7	0.7	0.0
25°	166.3	151.7	133.7	32.0	1.5	0.7	0.0	0.0
27.5°	169.7	153.2	133.5	22.6	0.0	0.0	0.0	0.0
30°	165.5	149.5	131.3	14.1	0.0	0.0	0.0	0.0
32.5°	155.8	146.8	124.5	6.1	0.0	0.0	0.0	0.0
35°	152.7	141.0	109.0	0.7	0.0	0.0	0.0	0.0
37.5°	145.6	124.3	80.1	0.0	0.0	0.0	0.0	0.0
40°	125.2	89.8	38.1	0.0	0.0	0.0	0.0	0.0
42.5°	82.8	38.3	2.2	0.0	0.0	0.0	0.0	0.0
45°	29.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
67.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
70°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
77.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)