

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: P1308788

Luminaire Tested: LDSQA3D02R459030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R459030DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

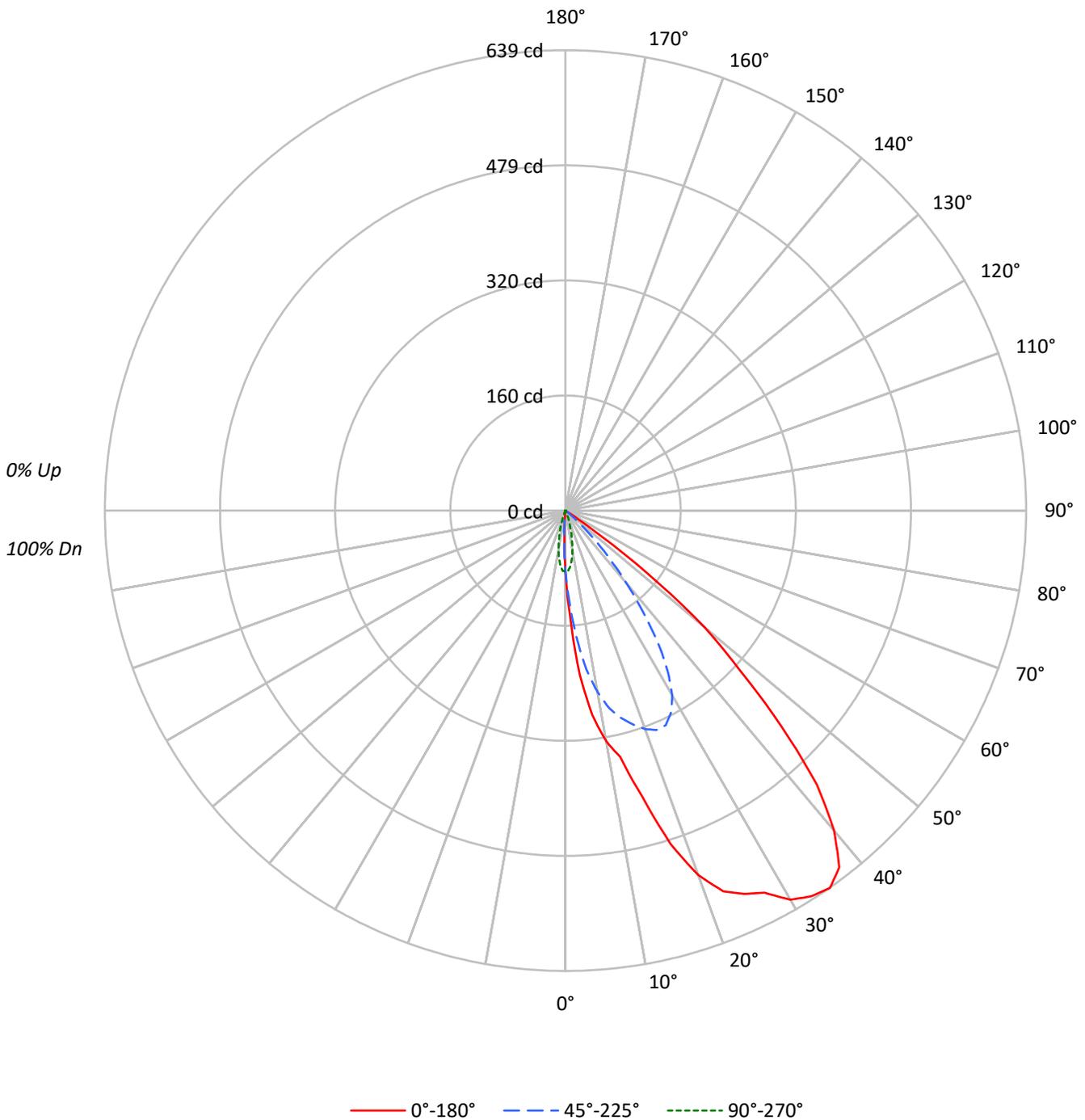
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 271.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26  
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 (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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67				67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49				49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				37

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

	0°	45°	90°	135°	180°
0°	14501	14501	14501	14501	14501
5°	39572	30444	13416	2697	1003
10°	56836	44664	9706	262	210
15°	73173	53133	5153	89	0
20°	98621	59125	1961	0	0
25°	111546	62443	513	0	0
30°	123993	58864	40	0	0
35°	134410	46948	0	0	0
40°	130261	29474	0	0	0
45°	103269	14053	0	0	0
50°	67599	1768	0	0	0
55°	11620	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	198	0
85°	0	395	988	395	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 103269 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.0	3.7
10°-20°	38.6	14.2
20°-30°	72.3	26.7
30°-40°	84.4	31.1
40°-50°	55.0	20.3
50°-60°	10.2	3.8
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	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°	120.9	44.6
0°-40°	205.3	75.8
0°-60°	270.5	99.8
0°-90°	271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	271.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	229	176	78	16	6	25
15°	410	298	29	0	0	122
25°	587	329	3	0	0	271
35°	639	223	0	0	0	392
45°	424	58	0	0	0	322
55°	39	0	0	0	0	67
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
2.5°	148.4	149.6	147.2	146.2	143.0	143.8	138.4	136.2	132.8	127.2	124.5
5°	228.9	226.7	224.8	220.6	218.2	211.6	204.3	196.1	186.1	176.1	164.7
7.5°	286.3	284.6	283.9	280.5	275.6	268.8	259.3	248.8	236.0	222.6	205.3
10°	325.0	323.3	320.4	317.0	313.1	307.5	298.2	286.8	272.7	255.4	235.2
12.5°	350.3	350.0	345.2	341.3	336.4	331.6	322.1	312.8	299.0	281.2	258.3
15°	410.4	406.5	400.2	389.2	375.6	362.9	347.6	333.0	317.9	298.0	272.4
17.5°	485.3	480.9	470.2	456.3	434.4	410.4	384.1	361.0	338.4	311.4	281.2
20°	538.1	536.4	527.4	511.3	488.0	456.1	421.6	389.0	357.1	322.6	285.3
22.5°	571.9	570.9	567.3	556.3	532.5	496.7	452.2	408.4	370.0	329.6	284.1
25°	587.0	588.2	588.7	583.3	564.1	527.6	474.8	423.3	377.3	328.6	274.9
27.5°	597.7	597.7	599.6	597.2	577.7	539.3	483.6	428.4	374.9	316.7	255.4
30°	623.5	623.0	624.2	617.6	590.6	542.9	479.7	420.1	361.0	296.0	227.4
32.5°	634.6	635.1	634.9	624.4	593.0	540.5	470.2	404.3	335.4	263.7	190.5
35°	639.3	637.1	628.1	604.2	564.6	508.2	443.4	377.5	299.7	223.3	150.3
37.5°	623.9	617.6	597.7	565.1	516.7	462.4	399.2	329.6	252.3	175.1	113.1
40°	579.4	571.2	546.1	506.7	462.4	413.5	346.9	273.4	197.3	131.1	79.3
42.5°	516.4	506.9	479.9	445.6	405.3	353.9	287.5	214.1	144.5	90.5	50.4
45°	424.0	418.6	403.1	374.1	334.5	281.2	220.4	156.2	100.0	57.7	25.8
47.5°	327.9	321.1	309.9	290.0	256.9	206.3	154.2	106.1	64.2	28.5	5.4
50°	252.3	244.2	230.6	208.5	173.9	137.7	100.0	66.2	32.6	6.6	0.2
52.5°	145.2	146.9	140.4	126.2	107.0	82.5	57.9	33.3	7.3	0.2	0.0
55°	38.7	41.8	40.9	44.0	38.7	32.6	24.1	6.3	0.5	0.0	0.0
57.5°	0.0	0.0	0.2	0.5	1.5	2.2	0.7	0.2	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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	0.2	0.2
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	0.2	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	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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°	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
2.5°	118.5	113.4	107.0	83.7	63.0	45.2	35.3	32.6
5°	153.7	141.3	125.3	77.6	38.9	15.6	7.1	5.8
7.5°	187.1	168.8	139.9	67.9	19.7	3.9	1.9	1.7
10°	212.8	188.3	150.6	55.5	7.3	1.5	1.2	1.2
12.5°	230.6	200.7	154.5	42.1	2.7	0.7	0.7	0.5
15°	240.8	205.5	150.8	28.9	1.0	0.5	0.0	0.0
17.5°	244.0	203.6	141.1	18.2	0.2	0.0	0.0	0.0
20°	241.3	194.1	125.8	10.7	0.0	0.0	0.0	0.0
22.5°	232.5	179.3	107.3	5.8	0.0	0.0	0.0	0.0
25°	216.3	158.4	85.6	2.7	0.0	0.0	0.0	0.0
27.5°	189.7	131.4	64.5	1.0	0.0	0.0	0.0	0.0
30°	159.6	102.4	45.7	0.2	0.0	0.0	0.0	0.0
32.5°	124.5	75.4	29.4	0.0	0.0	0.0	0.0	0.0
35°	93.7	52.8	17.5	0.0	0.0	0.0	0.0	0.0
37.5°	65.2	33.3	9.2	0.0	0.0	0.0	0.0	0.0
40°	40.6	18.0	3.2	0.0	0.0	0.0	0.0	0.0
42.5°	22.6	6.3	0.2	0.0	0.0	0.0	0.0	0.0
45°	5.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.2	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	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.2	0.5	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.5	0.5	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.5	0.5	0.2	0.0	0.0	0.0
77.5°	0.2	0.5	0.5	0.5	0.2	0.2	0.0	0.0
80°	0.2	0.5	0.5	0.5	0.5	0.2	0.0	0.0
82.5°	0.2	0.5	0.5	0.5	0.5	0.2	0.0	0.0
85°	0.2	0.5	0.5	0.5	0.2	0.2	0.0	0.0
87.5°	0.2	0.5	0.5	0.5	0.5	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)