

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: P1308806

Luminaire Tested: LDSQA3D02R559030DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R559030DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

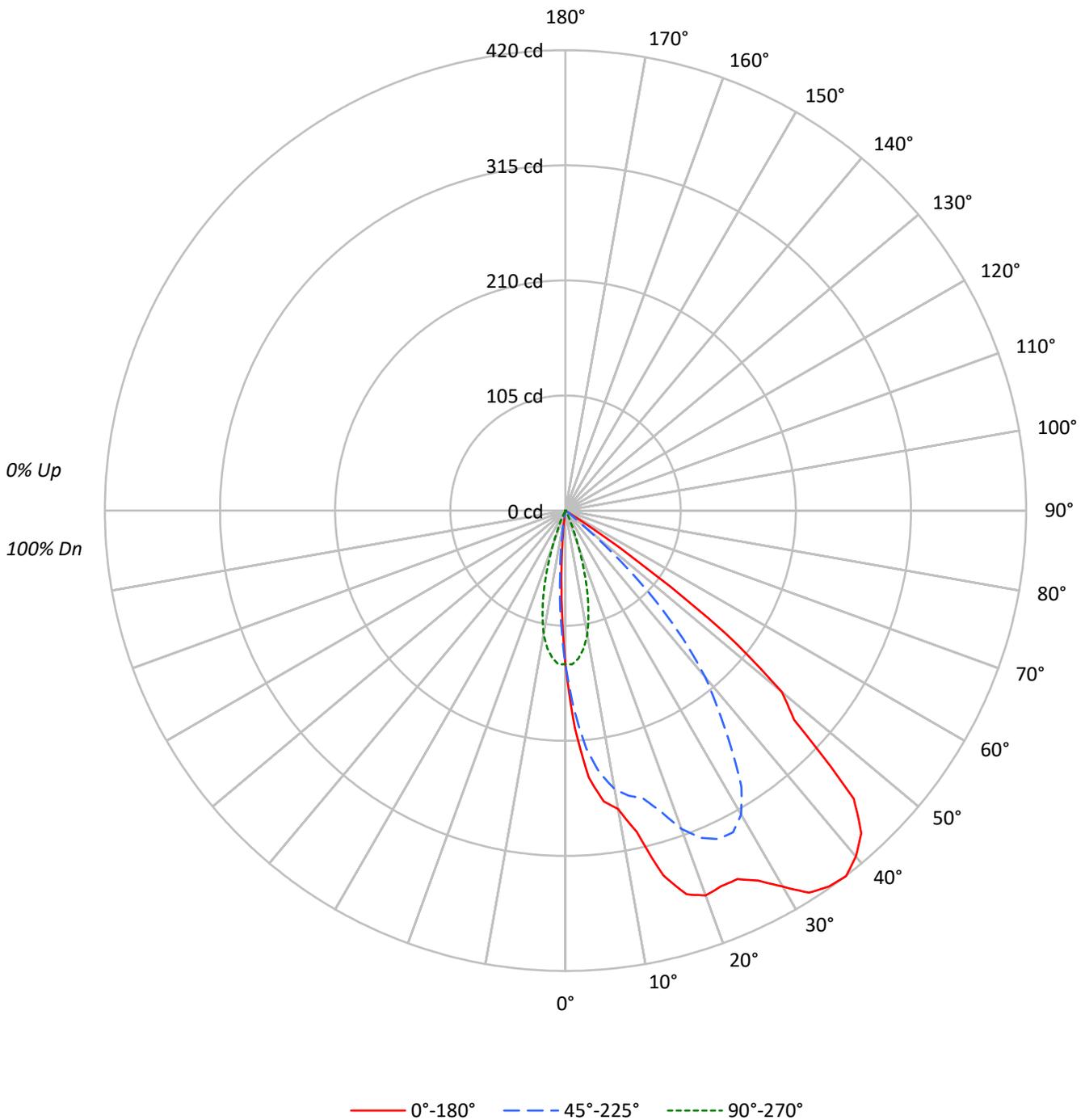
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 258.9 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	88	86	84	82
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	81	78	75	73
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	24111	24111	24111	24111	24111
5°	42252	37653	23391	9716	5601
10°	48354	45084	20006	1067	385
15°	61441	48390	13711	214	125
20°	68472	56614	6030	0	0
25°	70481	62804	1710	0	0
30°	78751	63657	239	0	0
35°	88009	55273	0	0	0
40°	92581	44492	0	0	0
45°	90531	28107	0	0	0
50°	68939	5734	0	0	0
55°	22580	0	0	0	0
60°	0	0	0	0	0
65°	0	82	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	496	198	0
85°	0	395	395	395	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 90531 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.8	4.9
10°-20°	37.5	14.5
20°-30°	60.9	23.5
30°-40°	72.4	28.0
40°-50°	59.2	22.9
50°-60°	15.7	6.1
60°-70°	0.1	0.0
70°-80°	0.1	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
<b>0°-30°</b>	<b>111.2</b>	<b>42.9</b>
<b>0°-40°</b>	<b>183.6</b>	<b>70.9</b>
<b>0°-60°</b>	<b>258.6</b>	<b>99.9</b>
<b>0°-90°</b>	<b>258.9</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>258.9</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	244	218	135	56	32	24
15°	345	271	77	1	1	96
25°	371	330	9	0	0	175
35°	419	263	0	0	0	260
45°	372	115	0	0	0	267
55°	75	0	0	0	0	85
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°	67.5°
0°	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
2.5°	198.6	197.2	197.4	196.7	197.4	194.2	190.8	187.7	185.2	181.8	161.1
5°	244.4	241.9	241.2	240.2	239.3	235.4	232.2	228.3	223.7	217.8	179.9
7.5°	267.5	265.5	264.6	265.1	262.9	261.4	257.3	252.9	248.0	241.7	194.0
10°	276.5	274.5	274.3	274.1	273.8	272.8	270.9	267.0	262.6	257.8	202.0
12.5°	300.1	295.7	292.8	289.4	285.3	279.9	275.5	272.1	270.4	266.5	205.7
15°	344.6	340.5	337.3	333.0	325.2	313.7	303.3	289.9	278.2	271.4	204.2
17.5°	367.0	365.1	362.4	359.5	354.1	345.9	335.2	321.0	306.2	287.0	197.2
20°	373.6	372.6	370.7	369.5	365.8	360.0	352.7	341.7	327.9	308.9	186.2
22.5°	370.9	371.7	372.6	375.8	376.3	372.2	365.3	354.9	340.8	323.2	169.4
25°	370.9	370.4	370.4	377.0	381.2	379.2	374.3	364.8	350.5	330.5	148.7
27.5°	380.4	377.5	371.4	378.2	385.1	384.3	379.9	368.7	352.7	330.8	123.4
30°	396.0	389.7	379.7	386.0	392.4	389.7	382.6	368.3	347.8	320.1	92.5
32.5°	413.3	410.4	405.3	409.4	408.4	397.7	385.1	365.1	337.8	298.6	62.3
35°	418.6	419.1	415.7	415.0	409.4	398.4	385.1	356.1	316.9	262.9	37.0
37.5°	420.3	420.6	415.2	408.4	400.1	387.2	371.2	337.6	278.2	228.3	19.7
40°	411.8	411.6	402.8	394.5	385.3	372.6	349.3	298.6	241.4	197.9	7.1
42.5°	399.2	396.0	387.7	377.5	366.3	350.5	314.0	252.2	209.8	158.5	0.5
45°	371.7	368.7	362.2	351.2	338.8	316.4	258.7	216.6	170.6	115.4	0.0
47.5°	282.6	281.1	287.9	289.4	289.2	263.6	215.9	176.7	125.3	67.2	0.0
50°	257.3	255.3	248.5	239.7	224.2	202.7	173.1	130.9	73.5	21.4	0.0
52.5°	184.7	191.1	192.5	186.0	171.4	150.2	119.3	75.5	25.6	0.0	0.0
55°	75.2	71.3	74.2	77.9	80.8	74.2	55.0	26.8	0.2	0.0	0.0
57.5°	0.0	0.2	1.5	3.4	5.6	7.1	7.5	0.5	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	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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	0.2	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
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):**

	90°	112.5°	135°	157.5°	180°
0°	140.0	140.0	140.0	140.0	140.0
2.5°	140.4	118.8	97.8	86.4	80.8
5°	135.3	90.8	56.2	38.9	32.4
7.5°	126.8	62.3	22.4	9.2	6.6
10°	114.4	35.8	6.1	2.4	2.2
12.5°	96.6	16.3	2.2	1.7	1.7
15°	76.9	5.6	1.2	1.0	0.7
17.5°	54.0	1.5	0.5	0.0	0.0
20°	32.9	0.2	0.0	0.0	0.0
22.5°	18.3	0.0	0.0	0.0	0.0
25°	9.0	0.0	0.0	0.0	0.0
27.5°	3.9	0.0	0.0	0.0	0.0
30°	1.2	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	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°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.0	0.0	0.0
77.5°	0.5	0.2	0.2	0.0	0.0
80°	0.5	0.2	0.2	0.0	0.0
82.5°	0.5	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.2	0.0	0.0
87.5°	0.5	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)