

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: P1317079

Luminaire Tested: LDSQA3D02R459827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R459827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

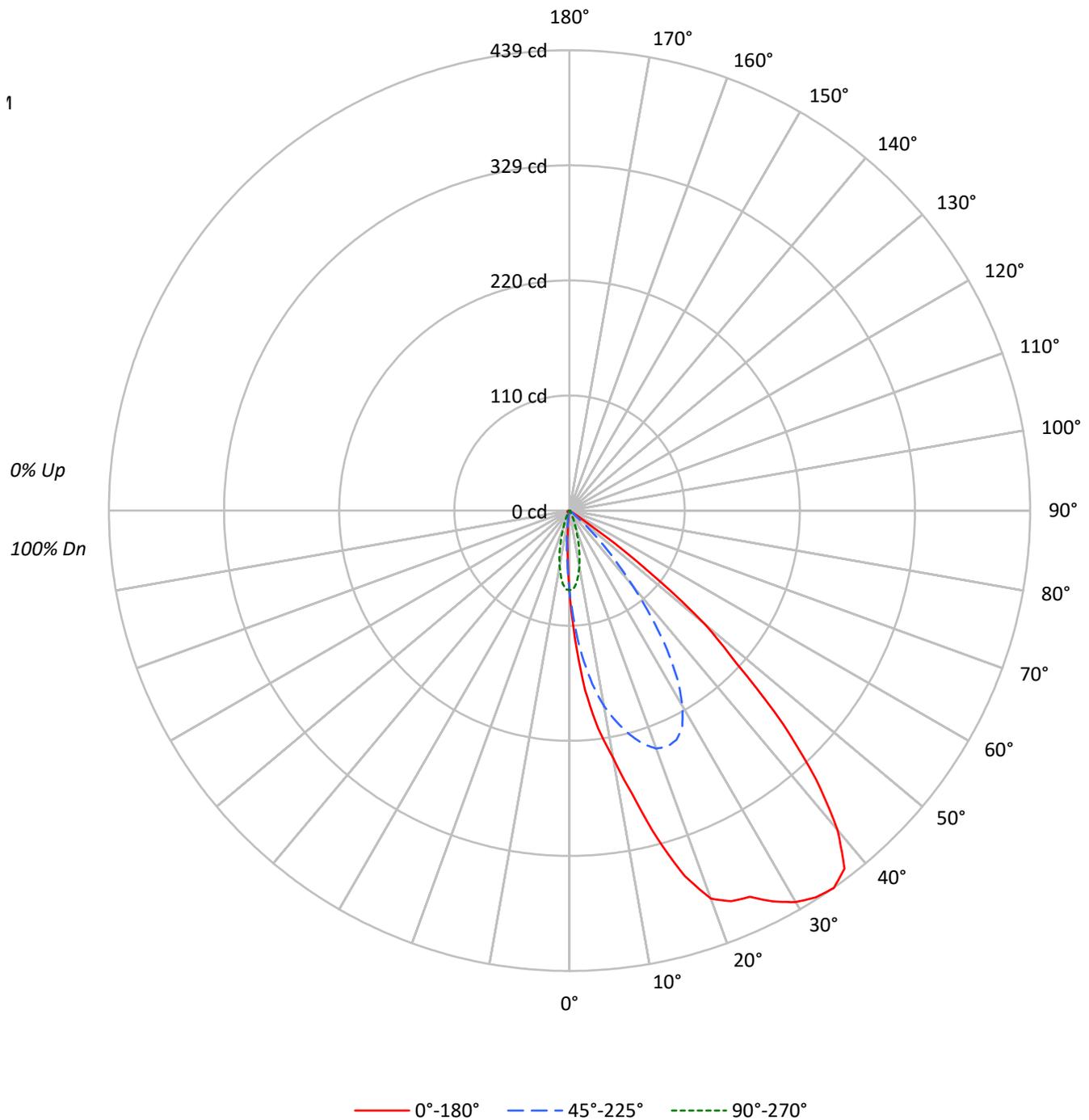
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 199.0 lumens  
Efficiency: N/A  
Efficacy: 55.3 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
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	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	13037	13037	13037	13037	13037
5°	29718	24117	12205	4893	3337
10°	41884	33122	9426	1084	490
15°	57715	39404	6026	357	303
20°	72174	44261	3134	238	238
25°	77227	45834	1463	190	228
30°	85711	42796	656	199	239
35°	92340	34123	210	210	273
40°	89344	21133	112	270	337
45°	70170	9962	122	317	414
50°	45093	1152	188	402	536
55°	6846	90	210	510	661
60°	103	103	241	586	689
65°	122	122	285	611	815
70°	151	151	352	655	906
75°	133	200	466	799	998
80°	198	298	496	793	1190
85°	0	395	593	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 70170 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.3	4.2
10°-20°	30.0	15.1
20°-30°	52.6	26.5
30°-40°	59.8	30.0
40°-50°	38.7	19.5
50°-60°	7.6	3.8
60°-70°	0.9	0.5
70°-80°	0.8	0.4
80°-90°	0.3	0.2
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>90.9</b>	<b>45.7</b>
<b>0°-40°</b>	<b>150.7</b>	<b>75.7</b>
<b>0°-60°</b>	<b>197.0</b>	<b>99.0</b>
<b>0°-90°</b>	<b>199.0</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>199.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	76	76	76	76	76	
5°	172	140	71	28	19	18
15°	324	221	34	2	2	93
25°	406	241	8	1	1	191
35°	439	162	1	1	1	270
45°	288	41	0	1	2	217
55°	23	0	1	2	2	44
65°	0	0	1	2	2	0
75°	0	0	1	1	2	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°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2.5°	123.0	122.7	123.2	119.8	119.7	117.2	116.5	113.7	109.8	108.0	103.7
5°	171.9	170.3	170.3	166.3	164.9	162.1	157.3	151.3	146.3	139.5	132.1
7.5°	209.7	209.4	209.4	205.9	202.5	198.5	192.1	185.2	177.2	166.8	156.1
10°	239.5	240.0	238.5	235.3	230.5	226.2	218.5	210.2	200.4	189.4	175.2
12.5°	277.1	273.4	272.3	265.1	259.0	250.6	241.5	232.0	219.8	206.0	190.1
15°	323.7	319.0	314.4	304.9	294.6	281.8	267.4	253.5	237.8	221.0	201.0
17.5°	365.3	365.3	359.1	344.2	330.9	311.9	292.6	273.9	255.5	233.3	208.4
20°	393.8	392.3	387.6	376.6	361.5	340.0	314.9	288.7	266.4	241.5	212.5
22.5°	403.1	402.7	402.9	396.4	384.3	362.0	331.2	300.4	272.4	243.5	210.5
25°	406.4	407.1	408.7	406.2	397.1	374.8	341.2	305.9	274.3	241.2	202.9
27.5°	420.2	418.9	420.7	419.1	408.7	382.1	343.2	304.6	270.3	232.7	189.2
30°	431.0	430.7	433.9	432.4	418.9	386.8	341.3	299.6	260.5	215.2	167.8
32.5°	437.2	437.4	438.2	432.0	412.1	376.6	332.4	289.4	242.0	192.4	139.8
35°	439.2	438.2	433.5	418.4	391.1	353.2	310.2	265.3	216.9	162.3	110.5
37.5°	430.5	425.4	413.4	390.8	359.1	323.7	281.9	234.8	182.4	128.1	82.4
40°	397.4	390.6	375.5	352.3	322.9	288.6	245.8	196.5	141.5	94.0	57.9
42.5°	347.8	344.3	328.5	308.4	283.4	248.8	204.7	154.8	104.7	64.9	36.9
45°	288.1	283.6	273.6	255.8	236.2	199.9	158.8	110.8	71.4	40.9	18.3
47.5°	216.0	216.4	209.5	196.0	176.7	146.5	108.7	74.4	44.8	21.1	4.2
50°	168.3	165.9	156.3	142.5	120.0	97.5	70.2	46.9	23.6	4.3	0.3
52.5°	93.2	94.7	89.5	85.0	73.4	58.2	41.4	23.8	5.0	0.5	0.3
55°	22.8	24.1	23.1	23.6	24.5	21.8	16.8	4.7	0.5	0.3	0.3
57.5°	0.5	0.5	0.5	0.5	0.8	1.2	1.2	0.3	0.3	0.3	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
82.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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°	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
2.5°	101.5	98.4	92.5	75.2	60.4	48.8	41.8	41.1
5°	125.7	117.2	104.8	70.6	44.6	28.3	20.5	19.3
7.5°	144.8	132.8	113.8	62.9	30.5	14.5	8.0	6.7
10°	160.6	143.6	118.5	53.9	19.1	6.2	3.3	2.8
12.5°	171.4	150.9	119.3	43.9	11.0	3.0	2.2	2.0
15°	178.4	153.3	115.3	33.8	6.2	2.0	1.8	1.7
17.5°	181.2	151.3	107.7	24.5	3.3	1.5	1.5	1.5
20°	179.9	144.8	96.4	17.1	2.2	1.3	1.3	1.3
22.5°	173.6	133.6	82.2	11.5	1.5	1.2	1.2	1.2
25°	161.1	118.5	67.2	7.7	1.0	1.0	1.2	1.2
27.5°	142.5	99.9	51.4	5.2	0.8	1.0	1.2	1.2
30°	119.0	79.1	36.9	3.3	0.8	1.0	1.0	1.2
32.5°	94.5	57.6	24.3	2.0	0.7	1.0	1.2	1.3
35°	68.6	39.3	15.5	1.0	0.8	1.0	1.2	1.3
37.5°	48.1	25.6	9.0	0.7	0.8	1.0	1.3	1.3
40°	31.3	14.3	3.3	0.5	0.8	1.2	1.3	1.5
42.5°	16.3	5.0	0.7	0.5	0.8	1.2	1.5	1.7
45°	4.2	0.7	0.2	0.5	1.0	1.3	1.7	1.7
47.5°	0.5	0.2	0.2	0.7	1.0	1.5	1.7	1.8
50°	0.2	0.3	0.3	0.7	1.0	1.5	1.8	2.0
52.5°	0.3	0.3	0.3	0.7	1.2	1.5	2.0	2.2
55°	0.3	0.3	0.3	0.7	1.2	1.7	2.0	2.2
57.5°	0.3	0.3	0.3	0.7	1.2	1.7	2.0	2.0
60°	0.3	0.3	0.3	0.7	1.2	1.7	2.0	2.0
62.5°	0.3	0.3	0.5	0.7	1.2	1.5	2.0	2.0
65°	0.3	0.5	0.5	0.7	1.2	1.5	1.8	2.0
67.5°	0.3	0.3	0.5	0.7	1.2	1.5	1.8	2.0
70°	0.3	0.3	0.5	0.7	1.0	1.3	1.7	1.8
72.5°	0.3	0.3	0.5	0.7	1.0	1.3	1.5	1.7
75°	0.3	0.3	0.5	0.7	0.8	1.2	1.5	1.5
77.5°	0.3	0.3	0.5	0.5	0.8	1.0	1.3	1.3
80°	0.3	0.3	0.5	0.5	0.7	0.8	1.0	1.2
82.5°	0.3	0.3	0.3	0.5	0.5	0.7	0.8	0.8
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)