

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: P1307451

Luminaire Tested: LDSQA3D20R309024D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-50)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309024D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

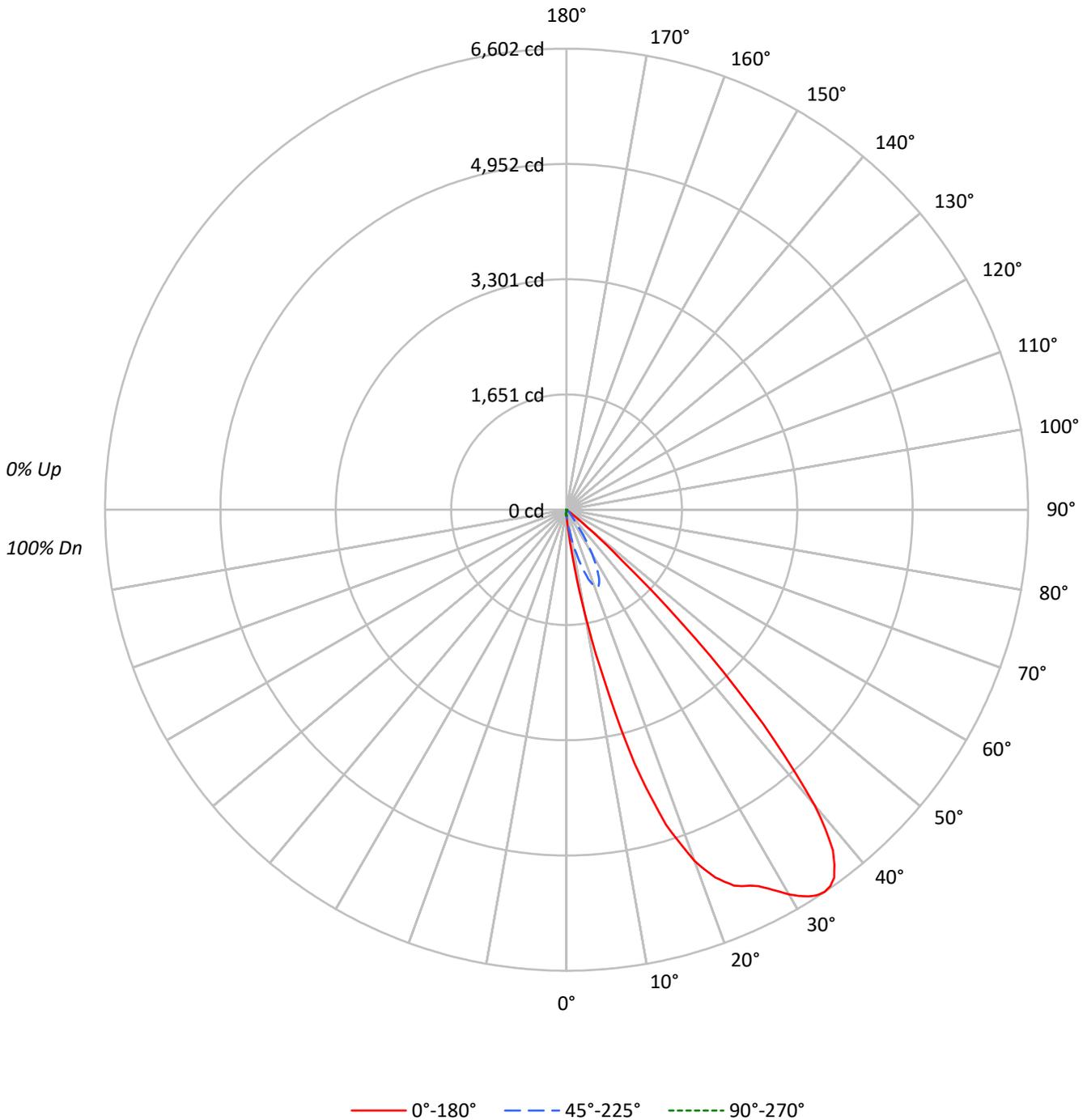
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1589.0 lumens  
Efficiency: N/A  
Efficacy: 55.2 lumens/watt  
Spacing Criteria (0/90/45): 2.41 / 0.46 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	14639	14639	14639	14639	14639
5°	53109	33003	13398	5411	3873
10°	262861	79011	10423	1049	0
15°	670543	150484	6651	0	0
20°	979773	213992	2731	0	0
25°	1130355	209979	570	0	0
30°	1265063	144118	0	0	0
35°	1383538	62085	0	0	0
40°	1241775	24146	0	0	0
45°	634132	9815	0	0	0
50°	97875	1206	0	0	0
55°	5825	0	450	0	0
60°	0	0	517	0	0
65°	0	0	1223	0	0
70°	0	755	1511	0	0
75°	0	998	2994	0	0
80°	0	1488	4463	0	0
85°	0	2964	8892	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 634132 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.7	1.1
10°-20°	211.7	13.3
20°-30°	523.2	32.9
30°-40°	601.7	37.9
40°-50°	223.2	14.0
50°-60°	8.1	0.5
60°-70°	0.8	0.0
70°-80°	1.3	0.1
80°-90°	1.2	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°	752.7	47.4
0°-40°	1354.4	85.2
0°-60°	1585.7	99.8
0°-90°	1589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1589.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	85	85	85	85	85	
5°	307	191	78	31	22	67
15°	3761	844	37	0	0	1081
25°	5948	1105	3	0	0	2748
35°	6581	295	0	0	0	3990
45°	2604	40	0	0	0	2028
55°	19	0	2	0	0	66
65°	0	0	3	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
2.5°	150.6	152.1	152.1	147.6	146.1	144.6	140.2	126.8	105.9	85.0	68.6
5°	307.2	308.7	308.7	299.7	281.8	263.9	249.0	190.9	122.3	77.5	50.7
7.5°	724.7	726.2	694.9	659.1	587.5	550.2	481.7	293.8	138.7	70.1	32.8
10°	1503.1	1470.3	1388.3	1283.9	1173.6	1030.4	885.8	451.8	150.6	59.6	20.9
12.5°	2512.7	2481.3	2375.5	2226.3	2010.1	1729.8	1455.4	635.2	152.1	47.7	11.9
15°	3760.8	3672.8	3546.0	3298.5	2979.4	2545.5	2092.1	844.0	146.1	37.3	3.0
17.5°	4728.6	4648.0	4487.0	4197.7	3801.0	3319.4	2763.2	1042.3	129.7	23.9	0.0
20°	5345.9	5260.9	5110.3	4855.3	4433.3	3868.1	3231.4	1167.6	107.4	14.9	0.0
21°	5521.9	5439.9	5292.2	5038.7	4618.2	4054.5	3346.2	1194.4	96.9	11.9	0.0
22°	5677.0	5612.8	5475.6	5199.8	4771.8	4191.7	3462.5	1197.4	89.5	8.9	0.0
23°	5785.8	5739.6	5602.4	5348.9	4922.4	4303.6	3525.2	1179.5	80.5	6.0	0.0
24°	5890.2	5833.5	5715.7	5480.1	5041.7	4397.5	3581.8	1146.7	71.6	4.5	0.0
25°	5948.4	5882.7	5791.8	5571.1	5140.1	4457.2	3616.1	1105.0	62.6	3.0	0.0
26°	5988.6	5937.9	5838.0	5624.8	5181.9	4495.9	3620.6	1043.8	56.7	1.5	0.0
27°	6049.8	5999.1	5902.1	5672.5	5199.8	4490.0	3593.8	973.7	49.2	0.0	0.0
28°	6142.2	6075.1	5978.2	5723.2	5207.2	4464.6	3534.1	897.7	41.8	0.0	0.0
29°	6248.1	6179.5	6073.6	5790.3	5208.7	4413.9	3440.2	814.2	37.3	0.0	0.0
30°	6361.4	6301.8	6194.4	5855.9	5225.1	4348.3	3331.3	724.7	29.8	0.0	0.0
31°	6450.9	6397.2	6282.4	5915.6	5238.5	4291.6	3197.1	635.2	25.4	0.0	0.0
32°	6528.4	6480.7	6339.0	5929.0	5211.7	4211.1	3054.0	548.8	20.9	0.0	0.0
33°	6582.1	6522.5	6356.9	5894.7	5134.2	4078.4	2894.4	466.7	16.4	0.0	0.0
34°	6601.5	6529.9	6330.1	5805.2	4977.6	3877.1	2687.1	381.7	13.4	0.0	0.0
35°	6580.6	6492.6	6233.2	5651.6	4765.8	3637.0	2438.1	295.3	10.4	0.0	0.0
36°	6513.5	6401.7	6094.5	5432.4	4463.1	3353.7	2189.1	229.6	7.5	0.0	0.0
37°	6368.9	6245.1	5857.4	5143.1	4163.4	3028.6	1905.7	178.9	4.5	0.0	0.0
38°	6191.4	6012.5	5541.3	4777.8	3775.7	2663.3	1625.4	147.6	3.0	0.0	0.0
39°	5888.7	5691.9	5165.5	4357.3	3395.4	2315.8	1352.5	128.2	1.5	0.0	0.0
40°	5523.4	5289.3	4736.0	3906.9	2946.6	1952.0	1128.8	107.4	1.5	0.0	0.0
42.5°	4166.4	3968.1	3373.1	2657.3	1801.4	1151.2	626.3	70.1	0.0	0.0	0.0
45°	2603.6	2396.3	1993.7	1456.9	975.2	596.5	301.2	40.3	0.0	0.0	0.0
47.5°	1063.2	975.2	802.3	617.4	441.4	280.3	125.3	17.9	0.0	0.0	0.0
50°	365.3	325.1	272.9	199.8	141.7	96.9	65.6	4.5	0.0	0.0	0.0
52.5°	105.9	107.4	93.9	80.5	62.6	44.7	32.8	0.0	0.0	0.0	0.0
55°	19.4	16.4	19.4	17.9	19.4	16.4	11.9	0.0	0.0	1.5	0.0
57.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	0.0	1.5	1.5	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	1.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	4.5	1.5
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):**

	135°	157.5°	180°
0°	85.0	85.0	85.0
2.5°	55.2	49.2	46.2
5°	31.3	23.9	22.4
7.5°	16.4	10.4	8.9
10°	6.0	1.5	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
21°	0.0	0.0	0.0
22°	0.0	0.0	0.0
23°	0.0	0.0	0.0
24°	0.0	0.0	0.0
25°	0.0	0.0	0.0
26°	0.0	0.0	0.0
27°	0.0	0.0	0.0
28°	0.0	0.0	0.0
29°	0.0	0.0	0.0
30°	0.0	0.0	0.0
31°	0.0	0.0	0.0
32°	0.0	0.0	0.0
33°	0.0	0.0	0.0
34°	0.0	0.0	0.0
35°	0.0	0.0	0.0
36°	0.0	0.0	0.0
37°	0.0	0.0	0.0
38°	0.0	0.0	0.0
39°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0



TEST NUMBER: P1307451  
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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	0.0	0.0

(END OF REPORT)