

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: P1310775

Luminaire Tested: LDSQA3D24R209035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R209035D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

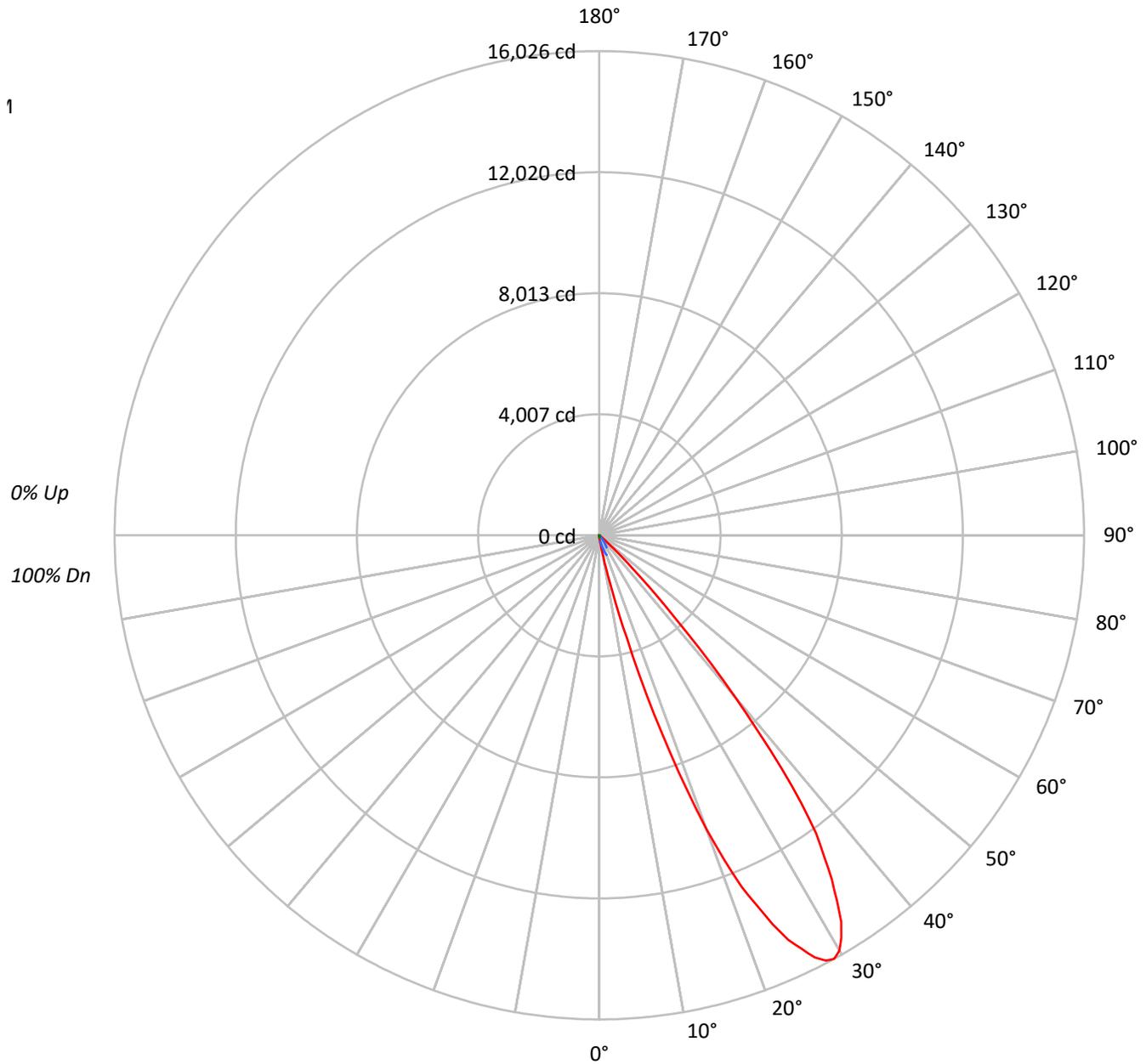
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2248.0 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
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 (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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	100	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	13347	13347	13347	13347	13347
5°	30669	22924	12689	7762	6690
10°	96656	39942	10335	4285	3218
15°	626183	73815	7631	1462	357
20°	1889864	126332	5242	0	0
25°	2806656	127508	3097	0	0
30°	3156215	96927	1213	0	0
35°	2723241	57880	862	0	0
40°	1568124	19717	0	0	0
45°	382486	7940	487	0	487
50°	45897	2197	536	536	1634
55°	6125	0	1231	1231	2462
60°	689	0	2101	2101	3513
65°	815	815	3342	3342	4972
70°	1007	1007	4129	4129	5136
75°	0	1331	5456	4059	5456
80°	0	1984	6050	4066	6050
85°	0	3952	12054	3952	3952

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 384970 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.4	0.5
10°-20°	208.3	9.3
20°-30°	908.1	40.4
30°-40°	914.5	40.7
40°-50°	183.4	8.2
50°-60°	9.2	0.4
60°-70°	6.1	0.3
70°-80°	5.4	0.2
80°-90°	2.7	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°	1126.8	50.1
0°-40°	2041.2	90.8
0°-60°	2233.8	99.4
0°-90°	2248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	78	78	78	78	78	
5°	177	133	73	45	39	28
15°	3512	414	43	8	2	1376
25°	14770	671	16	0	0	6660
35°	12953	275	4	0	0	7707
45°	1570	33	2	0	2	1710
55°	20	0	4	4	8	38
65°	2	2	8	8	12	2
75°	0	2	8	6	8	1
85°	0	2	6	2	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	116.2	116.2	114.2	114.2	112.2	114.2	110.1	112.2	112.2	110.1	99.9
5°	177.4	181.5	179.5	179.5	177.4	179.5	175.4	171.3	167.2	167.2	132.6
7.5°	291.6	289.6	285.5	287.6	281.4	277.4	273.3	271.2	259.0	252.9	173.4
10°	552.7	564.9	554.7	552.7	516.0	513.9	489.5	454.8	424.2	407.9	228.4
12.5°	1521.4	1586.7	1484.7	1435.8	1407.2	1297.1	1250.2	1129.9	1013.6	925.9	289.6
15°	3512.0	3673.1	3467.1	3481.4	3310.1	2996.0	2720.7	2484.1	2204.7	1923.2	414.0
17.5°	6881.2	6750.6	6638.5	6448.8	6100.1	5639.1	5045.6	4444.0	3923.9	3379.4	577.2
20°	10311.6	10195.3	9940.4	9526.4	9081.8	8398.5	7692.9	6789.4	5914.5	5094.6	689.3
21°	11492.4	11453.7	11035.6	10780.6	10095.4	9442.7	8629.0	7662.3	6677.2	5706.4	707.7
22°	12546.8	12314.3	12090.0	11712.7	11031.5	10321.8	9416.2	8398.5	7329.9	6251.0	709.7
23°	13276.9	13170.9	12958.8	12532.5	11855.4	11021.3	10066.8	9002.2	7876.4	6636.4	703.6
24°	14084.6	13950.0	13640.0	13142.3	12459.1	11635.2	10546.1	9489.6	8266.0	6960.7	687.3
25°	14769.8	14559.8	14192.7	13656.3	12909.8	12059.4	10964.2	9803.7	8537.2	7178.9	671.0
26°	15214.4	15100.2	14629.1	14045.8	13246.3	12369.4	11251.7	10044.4	8712.6	7278.9	644.5
27°	15677.4	15467.3	15004.4	14333.4	13466.6	12571.3	11414.9	10160.6	8773.8	7282.9	611.8
28°	15942.5	15714.1	15190.0	14484.3	13609.4	12683.5	11508.7	10197.3	8761.6	7219.7	573.1
29°	16026.1	15738.6	15226.7	14508.8	13644.0	12691.6	11494.4	10144.3	8653.5	7064.7	528.2
30°	15871.1	15577.5	15092.1	14392.5	13533.9	12589.6	11361.9	9968.9	8461.8	6842.4	487.4
31°	15532.6	15283.8	14814.7	14113.1	13289.2	12351.0	11062.1	9681.4	8135.4	6544.7	440.5
32°	15086.0	14841.2	14380.3	13746.0	12907.8	11961.5	10652.1	9232.7	7752.0	6100.1	393.6
33°	14415.0	14274.2	13860.2	13254.5	12416.3	11404.7	10101.5	8696.3	7205.4	5606.5	352.8
34°	13735.8	13558.4	13268.8	12606.0	11704.5	10695.0	9383.6	7956.0	6538.5	5053.8	314.1
35°	12952.7	12846.6	12391.8	11861.6	10956.0	9924.1	8620.8	7236.0	5761.5	4437.9	275.3
36°	12194.0	12030.8	11512.8	10951.9	10072.9	8957.3	7670.4	6369.3	5090.5	3860.7	234.5
37°	11092.7	10843.9	10474.7	9883.3	8855.4	7905.0	6730.2	5522.9	4264.5	3236.6	189.7
38°	9797.6	9681.4	9169.5	8573.9	7723.5	6822.0	5659.5	4635.7	3518.1	2702.3	144.8
39°	8270.0	8268.0	7778.5	7348.2	6516.1	5704.4	4656.1	3762.8	2904.2	2176.1	112.2
40°	6975.0	6734.3	6432.5	5892.0	5253.7	4564.3	3646.6	2945.0	2253.6	1753.9	87.7
42.5°	3656.8	3636.4	3458.9	3053.1	2696.2	2290.3	1821.2	1517.4	1187.0	966.7	55.1
45°	1570.4	1580.6	1458.2	1397.0	1258.4	1089.1	919.8	766.8	656.7	532.3	32.6
47.5°	397.7	381.4	377.3	391.6	391.6	379.3	340.6	320.2	295.7	271.2	18.4
50°	171.3	167.2	163.2	163.2	153.0	146.8	136.6	124.4	114.2	102.0	8.2
52.5°	63.2	65.3	67.3	65.3	65.3	63.2	63.2	61.2	55.1	48.9	4.1
55°	20.4	20.4	20.4	22.4	22.4	24.5	24.5	24.5	24.5	22.4	0.0
57.5°	4.1	4.1	6.1	6.1	6.1	6.1	6.1	6.1	8.2	8.2	0.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	2.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	0.0	0.0	0.0	2.0	0.0	2.0	2.0	0.0	2.0	2.0	2.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	77.5	77.5	77.5	77.5	77.5	77.5
2.5°	89.7	79.5	67.3	57.1	55.1	53.0
5°	99.9	73.4	55.1	44.9	40.8	38.7
7.5°	108.1	67.3	44.9	32.6	28.6	26.5
10°	112.2	59.1	36.7	24.5	18.4	18.4
12.5°	114.2	51.0	26.5	16.3	10.2	10.2
15°	112.2	42.8	20.4	8.2	2.0	2.0
17.5°	102.0	34.7	12.2	2.0	0.0	0.0
20°	87.7	28.6	8.2	0.0	0.0	0.0
21°	83.6	24.5	6.1	0.0	0.0	0.0
22°	77.5	22.4	4.1	0.0	0.0	0.0
23°	71.4	20.4	4.1	0.0	0.0	0.0
24°	65.3	18.4	2.0	0.0	0.0	0.0
25°	61.2	16.3	2.0	0.0	0.0	0.0
26°	57.1	14.3	2.0	0.0	0.0	0.0
27°	51.0	12.2	0.0	0.0	0.0	0.0
28°	46.9	10.2	0.0	0.0	0.0	0.0
29°	40.8	8.2	0.0	0.0	0.0	0.0
30°	34.7	6.1	0.0	0.0	0.0	0.0
31°	28.6	6.1	0.0	0.0	0.0	0.0
32°	24.5	4.1	0.0	0.0	0.0	0.0
33°	20.4	4.1	0.0	0.0	0.0	0.0
34°	18.4	4.1	0.0	0.0	0.0	0.0
35°	16.3	4.1	0.0	0.0	0.0	0.0
36°	12.2	2.0	0.0	0.0	0.0	0.0
37°	10.2	2.0	0.0	0.0	0.0	0.0
38°	8.2	2.0	0.0	0.0	0.0	0.0
39°	6.1	0.0	0.0	0.0	0.0	0.0
40°	6.1	0.0	0.0	0.0	0.0	0.0
42.5°	2.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	2.0	0.0	0.0	2.0	2.0
47.5°	0.0	2.0	0.0	0.0	2.0	4.1
50°	0.0	2.0	2.0	2.0	4.1	6.1
52.5°	0.0	4.1	2.0	2.0	6.1	6.1
55°	2.0	4.1	2.0	4.1	8.2	8.2
57.5°	2.0	4.1	4.1	6.1	8.2	10.2
60°	4.1	6.1	6.1	6.1	10.2	10.2
62.5°	4.1	6.1	8.2	8.2	10.2	12.2
65°	4.1	8.2	8.2	8.2	10.2	12.2
67.5°	6.1	8.2	8.2	8.2	10.2	12.2
70°	6.1	8.2	8.2	8.2	10.2	10.2
72.5°	6.1	8.2	6.1	8.2	8.2	10.2
75°	6.1	8.2	6.1	6.1	8.2	8.2
77.5°	4.1	6.1	6.1	4.1	6.1	6.1
80°	4.1	6.1	4.1	4.1	6.1	6.1



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	4.1	6.1	4.1	2.0	4.1	4.1
85°	4.1	6.1	4.1	2.0	2.0	2.0
87.5°	4.1	6.1	4.1	2.0	0.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)