

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: P1309509

Luminaire Tested: LDSQA3D20R209030D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209030D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

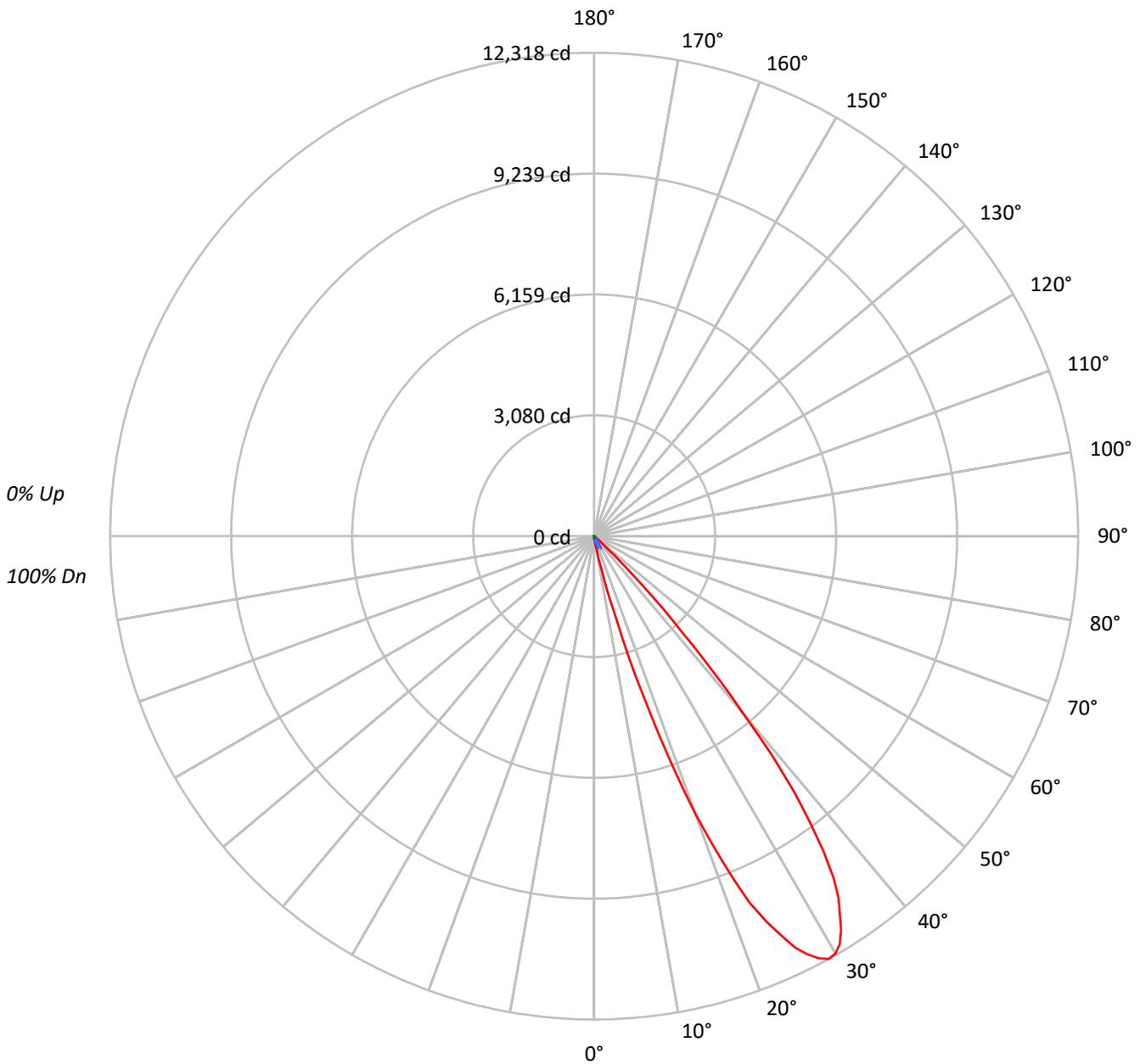
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1700.0 lumens  
Efficiency: N/A  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	10488	10488	10488	10488	10488
5°	22803	16078	9647	4391	3216
10°	56766	28383	6803	892	0
15°	399423	38887	3923	0	0
20°	1380449	65374	1558	0	0
25°	2127843	83536	646	0	0
30°	2442328	64552	0	0	0
35°	2230532	24536	0	0	0
40°	1337211	11398	0	0	0
45°	328611	5358	0	0	0
50°	36251	1366	0	0	0
55°	5074	0	510	0	0
60°	0	0	1171	0	0
65°	0	0	1386	0	0
70°	0	856	2568	0	0
75°	0	1131	3394	0	0
80°	0	1686	5058	0	0
85°	0	3359	10078	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 1°  
 Vertical Angle: 45°  
 Luminance: 350434 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.9	0.4
10°-20°	132.8	7.8
20°-30°	671.6	39.5
30°-40°	726.6	42.7
40°-50°	153.5	9.0
50°-60°	4.6	0.3
60°-70°	1.1	0.1
70°-80°	1.6	0.1
80°-90°	1.4	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°	811.3	47.7
0°-40°	1537.8	90.5
0°-60°	1695.9	99.8
0°-90°	1700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	61	61	61	61	61	
5°	132	93	56	25	19	19
15°	2240	218	22	0	0	934
25°	11198	440	3	0	0	5061
35°	10609	117	0	0	0	6256
45°	1349	22	0	0	0	1484
55°	17	0	2	0	0	30
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
2.5°	82.8	81.2	82.8	81.2	82.8	82.8	82.8	81.2	81.2	81.2	81.2
5°	131.9	131.9	130.2	131.9	131.9	131.9	131.9	130.2	130.2	128.5	128.5
7.5°	208.0	208.0	206.3	206.3	208.0	209.6	202.9	206.3	206.3	206.3	204.6
10°	324.6	331.4	324.6	333.1	326.3	321.2	329.7	321.2	321.2	319.5	314.5
12.5°	818.3	799.7	787.9	759.1	787.9	765.9	771.0	765.9	749.0	727.0	713.5
15°	2240.2	2240.2	2174.3	2262.2	2197.9	2221.6	2099.9	2101.6	2039.0	1971.4	1934.2
17.5°	4683.3	4725.5	4681.6	4654.5	4597.0	4514.2	4480.4	4394.2	4280.9	4149.0	4133.8
20°	7532.1	7354.6	7437.4	7361.4	7314.0	7212.6	7099.3	7028.3	6928.5	6761.1	6514.3
21°	8428.2	8421.4	8419.7	8418.0	8348.7	8183.0	8079.9	7937.9	7797.6	7625.1	7418.8
22°	9331.0	9363.2	9376.7	9278.6	9136.6	9062.2	8991.2	8796.8	8575.3	8485.7	8240.5
23°	10159.5	10129.0	10041.1	9995.5	9885.6	9863.6	9652.3	9528.8	9312.4	9214.4	8923.6
24°	10724.2	10709.0	10668.4	10600.8	10512.8	10377.6	10250.8	10056.3	9878.8	9718.2	9447.7
25°	11197.6	11211.1	11136.7	11091.1	10996.4	10844.2	10688.7	10475.6	10309.9	10122.3	9809.5
26°	11665.9	11571.2	11512.0	11444.4	11341.3	11167.1	11016.7	10825.6	10624.4	10414.8	10108.8
27°	11955.0	11870.5	11780.9	11714.9	11596.6	11430.9	11270.3	11058.9	10834.1	10622.7	10308.3
28°	12183.3	12090.3	12002.3	11922.9	11787.6	11610.1	11417.4	11202.6	10969.3	10751.2	10430.0
29°	12318.5	12208.6	12113.9	12024.3	11900.9	11708.2	11513.7	11283.8	11058.9	10830.7	10502.7
30°	12281.3	12186.6	12095.3	12004.0	11878.9	11698.0	11505.3	11285.5	11058.9	10834.1	10501.0
31°	12135.9	12019.3	11953.3	11862.0	11753.8	11569.5	11403.8	11163.8	10959.2	10715.7	10382.6
32°	11856.9	11782.6	11694.6	11623.6	11518.8	11322.7	11160.4	10964.3	10722.5	10523.0	10173.0
33°	11478.2	11408.9	11365.0	11282.1	11180.7	11045.4	10851.0	10671.8	10399.6	10195.0	9845.0
34°	11116.4	11028.5	10918.6	10894.9	10807.0	10632.9	10457.0	10274.4	10031.0	9770.6	9417.3
35°	10609.2	10517.9	10416.5	10424.9	10320.1	10117.2	9938.0	9733.4	9501.8	9195.8	8861.0
36°	9931.2	9870.4	9855.1	9814.6	9694.5	9452.8	9282.0	9025.0	8830.6	8456.9	8169.5
37°	9104.5	9126.5	9016.6	8964.1	8823.8	8654.7	8558.4	8228.7	8002.1	7721.5	7332.6
38°	8269.3	8237.1	8107.0	8139.1	7946.3	7770.5	7498.3	7302.2	7048.6	6788.2	6477.1
39°	7226.1	7146.6	6991.1	6997.8	6852.4	6654.6	6390.9	6159.3	6007.1	5756.9	5459.3
40°	5947.9	5914.1	5860.0	5770.4	5579.3	5493.1	5258.1	5007.9	4879.4	4532.8	4387.4
42.5°	3300.3	3254.6	3163.3	3131.2	3029.8	2928.3	2791.4	2624.0	2542.8	2439.7	2209.8
45°	1349.2	1438.8	1416.8	1391.5	1313.7	1318.8	1220.7	1232.5	1142.9	1082.1	1039.8
47.5°	297.6	322.9	324.6	312.8	324.6	314.5	309.4	300.9	302.6	307.7	295.9
50°	135.3	133.6	136.9	135.3	133.6	131.9	130.2	125.1	128.5	125.1	121.7
52.5°	52.4	54.1	54.1	50.7	52.4	52.4	52.4	50.7	50.7	50.7	50.7
55°	16.9	16.9	16.9	15.2	15.2	16.9	16.9	16.9	16.9	16.9	15.2
57.5°	1.7	3.4	1.7	3.4	1.7	1.7	1.7	1.7	1.7	3.4	3.4
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
2.5°	77.8	71.0	65.9	60.9	50.7	42.3	38.9	38.9
5°	120.0	93.0	69.3	55.8	38.9	25.4	20.3	18.6
7.5°	180.9	125.1	72.7	47.3	25.4	13.5	8.5	6.8
10°	262.1	162.3	76.1	38.9	15.2	5.1	0.0	0.0
12.5°	458.2	194.4	76.1	30.4	6.8	0.0	0.0	0.0
15°	1049.9	218.1	72.7	22.0	1.7	0.0	0.0	0.0
17.5°	2181.0	273.9	64.2	15.2	0.0	0.0	0.0	0.0
20°	3482.9	356.7	50.7	8.5	0.0	0.0	0.0	0.0
21°	4018.8	385.5	45.6	6.8	0.0	0.0	0.0	0.0
22°	4404.3	412.5	40.6	5.1	0.0	0.0	0.0	0.0
23°	4828.7	429.4	35.5	3.4	0.0	0.0	0.0	0.0
24°	5141.4	439.6	30.4	3.4	0.0	0.0	0.0	0.0
25°	5335.9	439.6	27.1	3.4	0.0	0.0	0.0	0.0
26°	5450.8	429.4	23.7	1.7	0.0	0.0	0.0	0.0
27°	5477.9	412.5	20.3	1.7	0.0	0.0	0.0	0.0
28°	5444.1	390.6	16.9	0.0	0.0	0.0	0.0	0.0
29°	5337.6	358.4	15.2	0.0	0.0	0.0	0.0	0.0
30°	5222.6	324.6	11.8	0.0	0.0	0.0	0.0	0.0
31°	5026.5	279.0	10.1	0.0	0.0	0.0	0.0	0.0
32°	4799.9	231.6	8.5	0.0	0.0	0.0	0.0	0.0
33°	4497.3	182.6	6.8	0.0	0.0	0.0	0.0	0.0
34°	4050.9	143.7	6.8	0.0	0.0	0.0	0.0	0.0
35°	3650.2	116.7	5.1	0.0	0.0	0.0	0.0	0.0
36°	3126.1	93.0	5.1	0.0	0.0	0.0	0.0	0.0
37°	2678.1	77.8	5.1	0.0	0.0	0.0	0.0	0.0
38°	2241.9	65.9	3.4	0.0	0.0	0.0	0.0	0.0
39°	1819.2	57.5	3.4	0.0	0.0	0.0	0.0	0.0
40°	1450.6	50.7	3.4	0.0	0.0	0.0	0.0	0.0
42.5°	782.8	33.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	432.8	22.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	191.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	64.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	32.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15.2	0.0	0.0	1.7	0.0	0.0	0.0	0.0
57.5°	3.4	0.0	0.0	1.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0
65°	0.0	0.0	3.4	3.4	1.7	0.0	0.0	0.0
67.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
70°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
72.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
75°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
77.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
80°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
85°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
87.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)