

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: P1327611

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQCA30R 1MMS\_3500K

Issue Date: 1/29/2026

**Test Information**

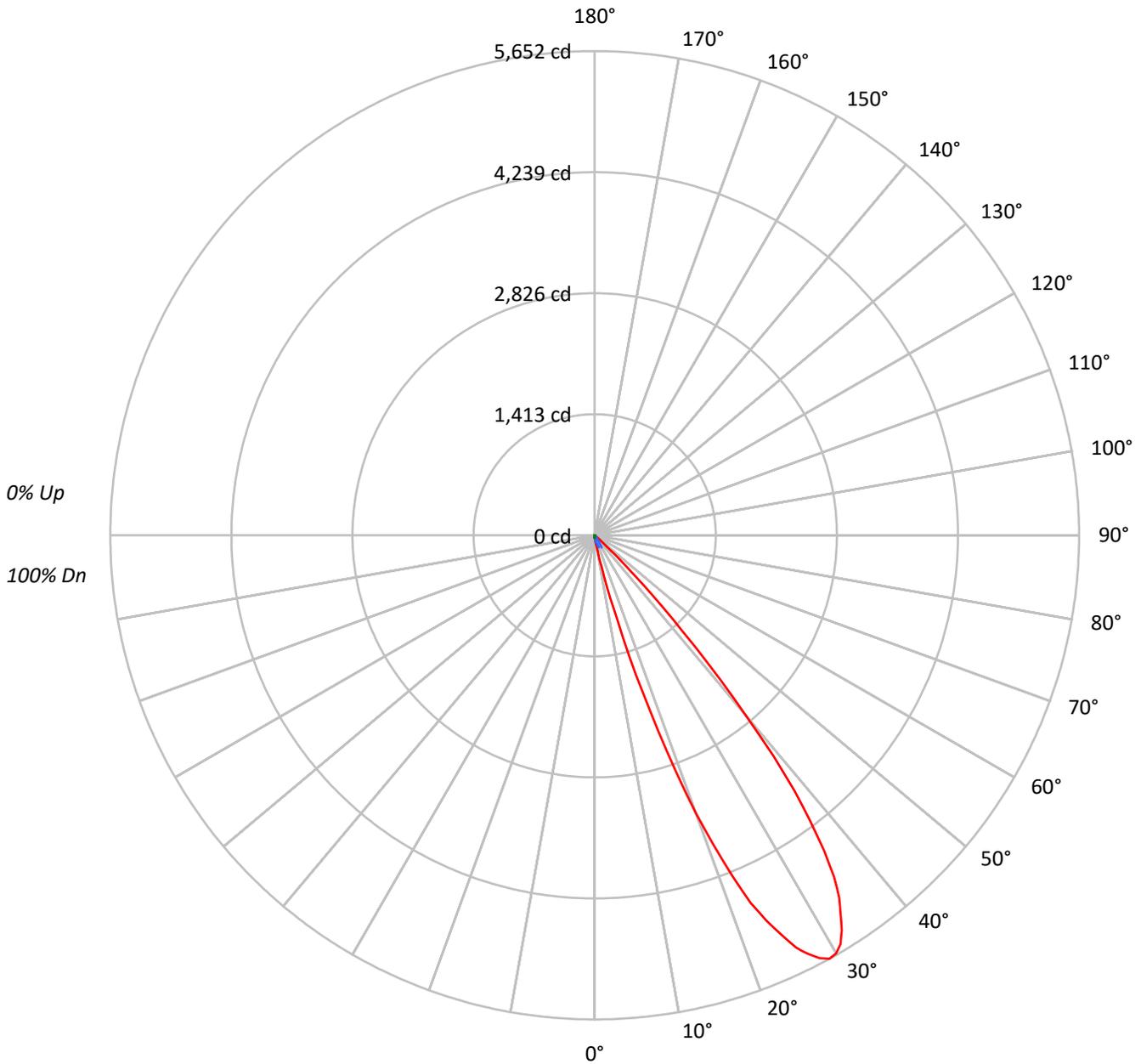
Test Method: LM-79-2019  
Report Number: P1327611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R20W2N902765DE010 3LSQCA30R 1MMS\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI ,  
3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 780.0 lumens  
Efficiency: N/A  
Efficacy: 63.4 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): 12.3  
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				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
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68				68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61				61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55				55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45				45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40				40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°	45°	90°	135°	180°
0°	4805	4805	4805	4805	4805
5°	10459	7382	4426	2005	1469
10°	26040	13029	3113	402	0
15°	183273	17848	1801	0	0
20°	633382	30002	715	0	0
25°	976300	38328	304	0	0
30°	1120608	29611	0	0	0
35°	1023431	11248	0	0	0
40°	613536	5238	0	0	0
45°	150763	2460	0	0	0
50°	16639	616	0	0	0
55°	2342	0	240	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 1°  
 Vertical Angle: 45°  
 Luminance: 160798 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	60.9	7.8
20°-30°	308.1	39.5
30°-40°	333.4	42.7
40°-50°	70.4	9.0
50°-60°	2.1	0.3
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.7	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°	372.2	47.7
0°-40°	705.6	90.5
0°-60°	778.1	99.8
0°-90°	780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	60	43	26	12	8	9
15°	1028	100	10	0	0	429
25°	5138	202	2	0	0	2322
35°	4868	54	0	0	0	2870
45°	619	10	0	0	0	681
55°	8	0	1	0	0	14
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	38.0	37.2	38.0	37.2	38.0	38.0	38.0	37.2	37.2	37.2	37.2
5°	60.5	60.5	59.7	60.5	60.5	60.5	60.5	59.7	59.7	59.0	59.0
7.5°	95.4	95.4	94.6	94.6	95.4	96.2	93.1	94.6	94.6	94.6	93.9
10°	148.9	152.0	148.9	152.8	149.7	147.4	151.3	147.4	147.4	146.6	144.3
12.5°	375.5	366.9	361.5	348.3	361.5	351.4	353.7	351.4	343.7	333.6	327.4
15°	1027.9	1027.9	997.6	1037.9	1008.5	1019.3	963.5	964.2	935.5	904.5	887.4
17.5°	2148.8	2168.2	2148.0	2135.6	2109.2	2071.2	2055.7	2016.1	1964.2	1903.7	1896.7
20°	3455.9	3374.5	3412.5	3377.6	3355.8	3309.3	3257.3	3224.7	3179.0	3102.2	2988.9
21°	3867.1	3863.9	3863.2	3862.4	3830.6	3754.6	3707.2	3642.1	3577.7	3498.6	3403.9
22°	4281.3	4296.0	4302.2	4257.2	4192.1	4158.0	4125.4	4036.2	3934.5	3893.4	3780.9
23°	4661.4	4647.4	4607.1	4586.2	4535.7	4525.7	4428.7	4372.1	4272.8	4227.8	4094.3
24°	4920.5	4913.5	4894.9	4863.9	4823.5	4761.5	4703.3	4614.1	4532.6	4458.9	4334.8
25°	5137.7	5143.9	5109.8	5088.8	5045.4	4975.6	4904.2	4806.5	4730.4	4644.3	4500.8
26°	5352.6	5309.1	5282.0	5251.0	5203.6	5123.7	5054.7	4967.0	4874.7	4778.5	4638.1
27°	5485.2	5446.5	5405.3	5375.1	5320.8	5244.8	5171.1	5074.1	4970.9	4874.0	4729.7
28°	5590.0	5547.3	5507.0	5470.5	5408.4	5327.0	5238.6	5140.0	5033.0	4932.9	4785.5
29°	5652.0	5601.6	5558.2	5517.0	5460.4	5372.0	5282.8	5177.3	5074.1	4969.4	4818.9
30°	5635.0	5591.5	5549.6	5507.7	5450.3	5367.3	5278.9	5178.0	5074.1	4970.9	4818.1
31°	5568.2	5514.7	5484.5	5442.6	5392.9	5308.4	5232.3	5122.2	5028.3	4916.6	4763.8
32°	5440.2	5406.1	5365.8	5333.2	5285.1	5195.1	5120.6	5030.7	4919.7	4828.2	4667.6
33°	5266.5	5234.7	5214.5	5176.5	5130.0	5067.9	4978.7	4896.5	4771.6	4677.7	4517.1
34°	5100.5	5060.1	5009.7	4998.9	4958.5	4878.6	4797.9	4714.2	4602.5	4483.0	4320.9
35°	4867.8	4825.9	4779.3	4783.2	4735.1	4642.0	4559.8	4465.9	4359.6	4219.2	4065.6
36°	4556.7	4528.8	4521.8	4503.2	4448.1	4337.1	4258.8	4140.9	4051.7	3880.2	3748.4
37°	4177.3	4187.4	4137.0	4113.0	4048.6	3971.0	3926.8	3775.5	3671.6	3542.8	3364.4
38°	3794.1	3779.4	3719.7	3734.4	3646.0	3565.3	3440.4	3350.4	3234.0	3114.6	2971.9
39°	3315.5	3279.0	3207.7	3210.8	3144.1	3053.3	2932.3	2826.0	2756.2	2641.4	2504.9
40°	2729.0	2713.5	2688.7	2647.6	2559.9	2520.4	2412.5	2297.7	2238.8	2079.8	2013.0
42.5°	1514.2	1493.3	1451.4	1436.7	1390.1	1343.6	1280.7	1203.9	1166.7	1119.4	1013.9
45°	619.0	660.2	650.1	638.4	602.7	605.1	560.1	565.5	524.4	496.5	477.1
47.5°	136.5	148.2	148.9	143.5	148.9	144.3	142.0	138.1	138.9	141.2	135.8
50°	62.1	61.3	62.8	62.1	61.3	60.5	59.7	57.4	59.0	57.4	55.9
52.5°	24.0	24.8	24.8	23.3	24.0	24.0	24.0	23.3	23.3	23.3	23.3
55°	7.8	7.8	7.8	7.0	7.0	7.8	7.8	7.8	7.8	7.8	7.0
57.5°	0.8	1.6	0.8	1.6	0.8	0.8	0.8	0.8	0.8	1.6	1.6
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°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
2.5°	35.7	32.6	30.3	27.9	23.3	19.4	17.8	17.8
5°	55.1	42.7	31.8	25.6	17.8	11.6	9.3	8.5
7.5°	83.0	57.4	33.4	21.7	11.6	6.2	3.9	3.1
10°	120.2	74.5	34.9	17.8	7.0	2.3	0.0	0.0
12.5°	210.2	89.2	34.9	14.0	3.1	0.0	0.0	0.0
15°	481.7	100.1	33.4	10.1	0.8	0.0	0.0	0.0
17.5°	1000.7	125.7	29.5	7.0	0.0	0.0	0.0	0.0
20°	1598.0	163.7	23.3	3.9	0.0	0.0	0.0	0.0
21°	1843.9	176.9	20.9	3.1	0.0	0.0	0.0	0.0
22°	2020.8	189.3	18.6	2.3	0.0	0.0	0.0	0.0
23°	2215.5	197.0	16.3	1.6	0.0	0.0	0.0	0.0
24°	2359.0	201.7	14.0	1.6	0.0	0.0	0.0	0.0
25°	2448.2	201.7	12.4	1.6	0.0	0.0	0.0	0.0
26°	2501.0	197.0	10.9	0.8	0.0	0.0	0.0	0.0
27°	2513.4	189.3	9.3	0.8	0.0	0.0	0.0	0.0
28°	2497.9	179.2	7.8	0.0	0.0	0.0	0.0	0.0
29°	2449.0	164.5	7.0	0.0	0.0	0.0	0.0	0.0
30°	2396.3	148.9	5.4	0.0	0.0	0.0	0.0	0.0
31°	2306.3	128.0	4.7	0.0	0.0	0.0	0.0	0.0
32°	2202.3	106.3	3.9	0.0	0.0	0.0	0.0	0.0
33°	2063.5	83.8	3.1	0.0	0.0	0.0	0.0	0.0
34°	1858.7	65.9	3.1	0.0	0.0	0.0	0.0	0.0
35°	1674.8	53.5	2.3	0.0	0.0	0.0	0.0	0.0
36°	1434.3	42.7	2.3	0.0	0.0	0.0	0.0	0.0
37°	1228.8	35.7	2.3	0.0	0.0	0.0	0.0	0.0
38°	1028.6	30.3	1.6	0.0	0.0	0.0	0.0	0.0
39°	834.7	26.4	1.6	0.0	0.0	0.0	0.0	0.0
40°	665.6	23.3	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	359.2	15.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	198.6	10.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	87.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	29.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.6	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.6	1.6	0.8	0.0	0.0	0.0
67.5°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.6	2.3	0.8	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°
82.5°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.6	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.6	2.3	0.8	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)