

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: P1310158

Luminaire Tested: LDSQA3D09R209035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310158  
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: LDSQA3D09R209035DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

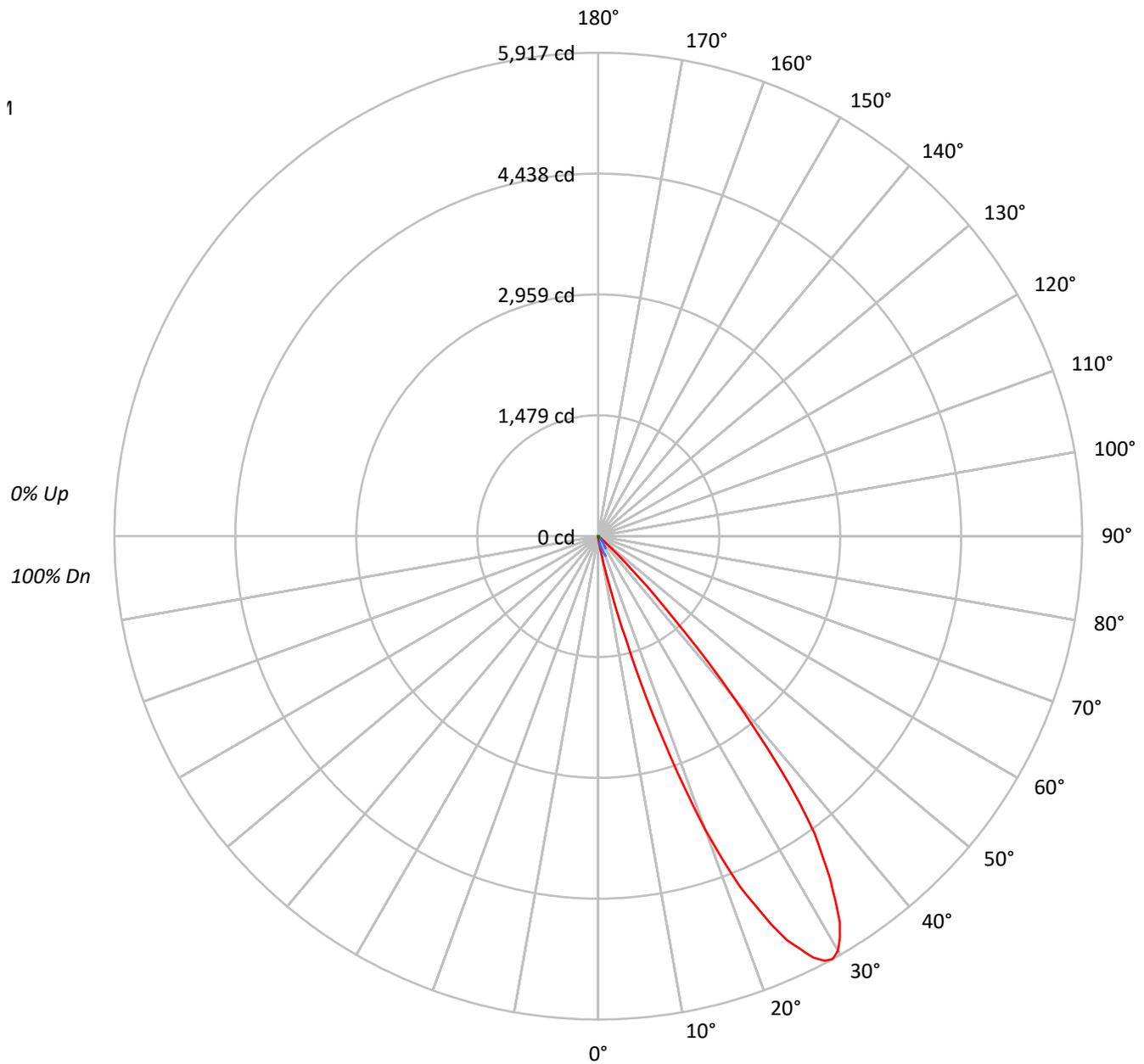
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 830.1 lumens  
Efficiency: N/A  
Efficacy: 74.8 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): 11.1  
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				
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	99	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	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68				
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41				
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37				

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

	0°	45°	90°	135°	180°
0°	4926	4926	4926	4926	4926
5°	11324	8454	4685	2870	2472
10°	35693	14742	3812	1574	1189
15°	231199	27262	2817	535	143
20°	697767	46644	1924	0	0
25°	1036272	47070	1140	0	0
30°	1165332	35796	457	0	0
35°	1005455	21382	315	0	0
40°	578981	7284	0	0	0
45°	141216	2923	195	0	195
50°	16960	804	214	214	616
55°	2252	0	450	450	901
60°	276	0	792	792	1309
65°	326	326	1223	1223	1834
70°	403	403	1511	1511	1913
75°	0	532	1996	1530	1996
80°	0	793	2281	1488	2281
85°	0	1581	4545	1581	1581

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 142141 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.8	0.5
10°-20°	76.9	9.3
20°-30°	335.3	40.4
30°-40°	337.6	40.7
40°-50°	67.7	8.2
50°-60°	3.4	0.4
60°-70°	2.3	0.3
70°-80°	2.0	0.2
80°-90°	1.0	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°	416.0	50.1
0°-40°	753.7	90.8
0°-60°	824.8	99.4
0°-90°	830.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	830.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	66	49	27	17	14	10
15°	1297	153	16	3	1	508
25°	5453	248	6	0	0	2459
35°	4782	102	2	0	0	2845
45°	580	12	1	0	1	631
55°	8	0	2	2	3	14
65°	1	1	3	3	4	1
75°	0	1	3	2	3	0
85°	0	1	2	1	1	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°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
2.5°	42.9	42.9	42.2	42.2	41.4	42.2	40.7	41.4	41.4	40.7	36.9
5°	65.5	67.0	66.3	66.3	65.5	66.3	64.8	63.3	61.7	61.7	48.9
7.5°	107.7	106.9	105.4	106.2	103.9	102.4	100.9	100.1	95.6	93.4	64.0
10°	204.1	208.6	204.8	204.1	190.5	189.8	180.7	167.9	156.6	150.6	84.3
12.5°	561.7	585.8	548.2	530.1	519.6	478.9	461.6	417.2	374.2	341.9	106.9
15°	1296.7	1356.2	1280.1	1285.4	1222.1	1106.2	1004.5	917.2	814.0	710.1	152.9
17.5°	2540.6	2492.5	2451.0	2381.0	2252.2	2082.1	1862.9	1640.8	1448.8	1247.7	213.1
20°	3807.2	3764.3	3670.2	3517.3	3353.1	3100.9	2840.3	2506.8	2183.7	1881.0	254.5
21°	4243.2	4228.9	4074.5	3980.4	3727.4	3486.4	3186.0	2829.0	2465.3	2106.9	261.3
22°	4632.5	4546.7	4463.8	4324.5	4073.0	3811.0	3476.6	3100.9	2706.3	2308.0	262.0
23°	4902.1	4862.9	4784.6	4627.2	4377.2	4069.2	3716.8	3323.8	2908.1	2450.3	259.8
24°	5200.3	5150.6	5036.1	4852.4	4600.1	4295.9	3893.8	3503.7	3051.9	2570.0	253.8
25°	5453.3	5375.7	5240.2	5042.1	4766.5	4452.5	4048.2	3619.7	3152.1	2650.6	247.7
26°	5617.4	5575.3	5401.3	5186.0	4890.8	4567.0	4154.3	3708.6	3216.8	2687.5	238.0
27°	5788.4	5710.8	5539.9	5292.1	4972.1	4641.5	4214.6	3751.5	3239.4	2689.0	225.9
28°	5886.3	5801.9	5608.4	5347.9	5024.8	4682.9	4249.2	3765.0	3234.9	2665.6	211.6
29°	5917.1	5811.0	5621.9	5356.9	5037.6	4686.0	4243.9	3745.5	3195.0	2608.4	195.0
30°	5859.9	5751.5	5572.2	5314.0	4997.0	4648.3	4195.0	3680.7	3124.2	2526.3	180.0
31°	5734.9	5643.0	5469.8	5210.8	4906.6	4560.2	4084.3	3574.5	3003.7	2416.4	162.6
32°	5570.0	5479.6	5309.5	5075.3	4765.8	4416.4	3933.0	3408.9	2862.2	2252.2	145.3
33°	5322.3	5270.3	5117.4	4893.8	4584.3	4210.8	3729.6	3210.8	2660.4	2070.0	130.3
34°	5071.5	5006.0	4899.1	4654.3	4321.5	3948.8	3464.6	2937.5	2414.1	1866.0	116.0
35°	4782.3	4743.2	4575.3	4379.5	4045.2	3664.1	3183.0	2671.7	2127.2	1638.5	101.7
36°	4502.2	4442.0	4250.7	4043.6	3719.1	3307.2	2832.1	2351.6	1879.5	1425.4	86.6
37°	4095.6	4003.7	3867.4	3649.1	3269.6	2918.7	2484.9	2039.1	1574.5	1195.0	70.0
38°	3617.4	3574.5	3385.5	3165.6	2851.6	2518.8	2089.6	1711.6	1298.9	997.7	53.5
39°	3053.4	3052.7	2872.0	2713.1	2405.9	2106.2	1719.1	1389.3	1072.3	803.5	41.4
40°	2575.3	2486.4	2375.0	2175.4	1939.7	1685.2	1346.4	1087.3	832.1	647.6	32.4
42.5°	1350.1	1342.6	1277.1	1127.3	995.5	845.6	672.4	560.2	438.2	356.9	20.3
45°	579.8	583.6	538.4	515.8	464.6	402.1	339.6	283.1	242.5	196.5	12.0
47.5°	146.8	140.8	139.3	144.6	144.6	140.1	125.8	118.2	109.2	100.1	6.8
50°	63.3	61.7	60.2	60.2	56.5	54.2	50.5	45.9	42.2	37.7	3.0
52.5°	23.3	24.1	24.8	24.1	24.1	23.3	23.3	22.6	20.3	18.1	1.5
55°	7.5	7.5	7.5	8.3	8.3	9.0	9.0	9.0	9.0	8.3	0.0
57.5°	1.5	1.5	2.3	2.3	2.3	2.3	2.3	2.3	3.0	3.0	0.0
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.8	0.0	0.8	0.8	0.0	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8



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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	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	28.6	28.6	28.6	28.6	28.6	28.6
2.5°	33.1	29.4	24.8	21.1	20.3	19.6
5°	36.9	27.1	20.3	16.6	15.1	14.3
7.5°	39.9	24.8	16.6	12.0	10.5	9.8
10°	41.4	21.8	13.6	9.0	6.8	6.8
12.5°	42.2	18.8	9.8	6.0	3.8	3.8
15°	41.4	15.8	7.5	3.0	0.8	0.8
17.5°	37.7	12.8	4.5	0.8	0.0	0.0
20°	32.4	10.5	3.0	0.0	0.0	0.0
21°	30.9	9.0	2.3	0.0	0.0	0.0
22°	28.6	8.3	1.5	0.0	0.0	0.0
23°	26.4	7.5	1.5	0.0	0.0	0.0
24°	24.1	6.8	0.8	0.0	0.0	0.0
25°	22.6	6.0	0.8	0.0	0.0	0.0
26°	21.1	5.3	0.8	0.0	0.0	0.0
27°	18.8	4.5	0.0	0.0	0.0	0.0
28°	17.3	3.8	0.0	0.0	0.0	0.0
29°	15.1	3.0	0.0	0.0	0.0	0.0
30°	12.8	2.3	0.0	0.0	0.0	0.0
31°	10.5	2.3	0.0	0.0	0.0	0.0
32°	9.0	1.5	0.0	0.0	0.0	0.0
33°	7.5	1.5	0.0	0.0	0.0	0.0
34°	6.8	1.5	0.0	0.0	0.0	0.0
35°	6.0	1.5	0.0	0.0	0.0	0.0
36°	4.5	0.8	0.0	0.0	0.0	0.0
37°	3.8	0.8	0.0	0.0	0.0	0.0
38°	3.0	0.8	0.0	0.0	0.0	0.0
39°	2.3	0.0	0.0	0.0	0.0	0.0
40°	2.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.8	0.0	0.0	0.8	0.8
47.5°	0.0	0.8	0.0	0.0	0.8	1.5
50°	0.0	0.8	0.8	0.8	1.5	2.3
52.5°	0.0	1.5	0.8	0.8	2.3	2.3
55°	0.8	1.5	0.8	1.5	3.0	3.0
57.5°	0.8	1.5	1.5	2.3	3.0	3.8
60°	1.5	2.3	2.3	2.3	3.8	3.8
62.5°	1.5	2.3	3.0	3.0	3.8	4.5
65°	1.5	3.0	3.0	3.0	3.8	4.5
67.5°	2.3	3.0	3.0	3.0	3.8	4.5
70°	2.3	3.0	3.0	3.0	3.8	3.8
72.5°	2.3	3.0	2.3	3.0	3.0	3.8
75°	2.3	3.0	2.3	2.3	3.0	3.0
77.5°	1.5	2.3	2.3	1.5	2.3	2.3
80°	1.5	2.3	1.5	1.5	2.3	2.3



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.5	2.3	1.5	0.8	1.5	1.5
85°	1.5	2.3	1.5	0.8	0.8	0.8
87.5°	1.5	2.3	1.5	0.8	0.0	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)