

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: P1316842

Luminaire Tested: LDSQA3D20R159740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159740D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

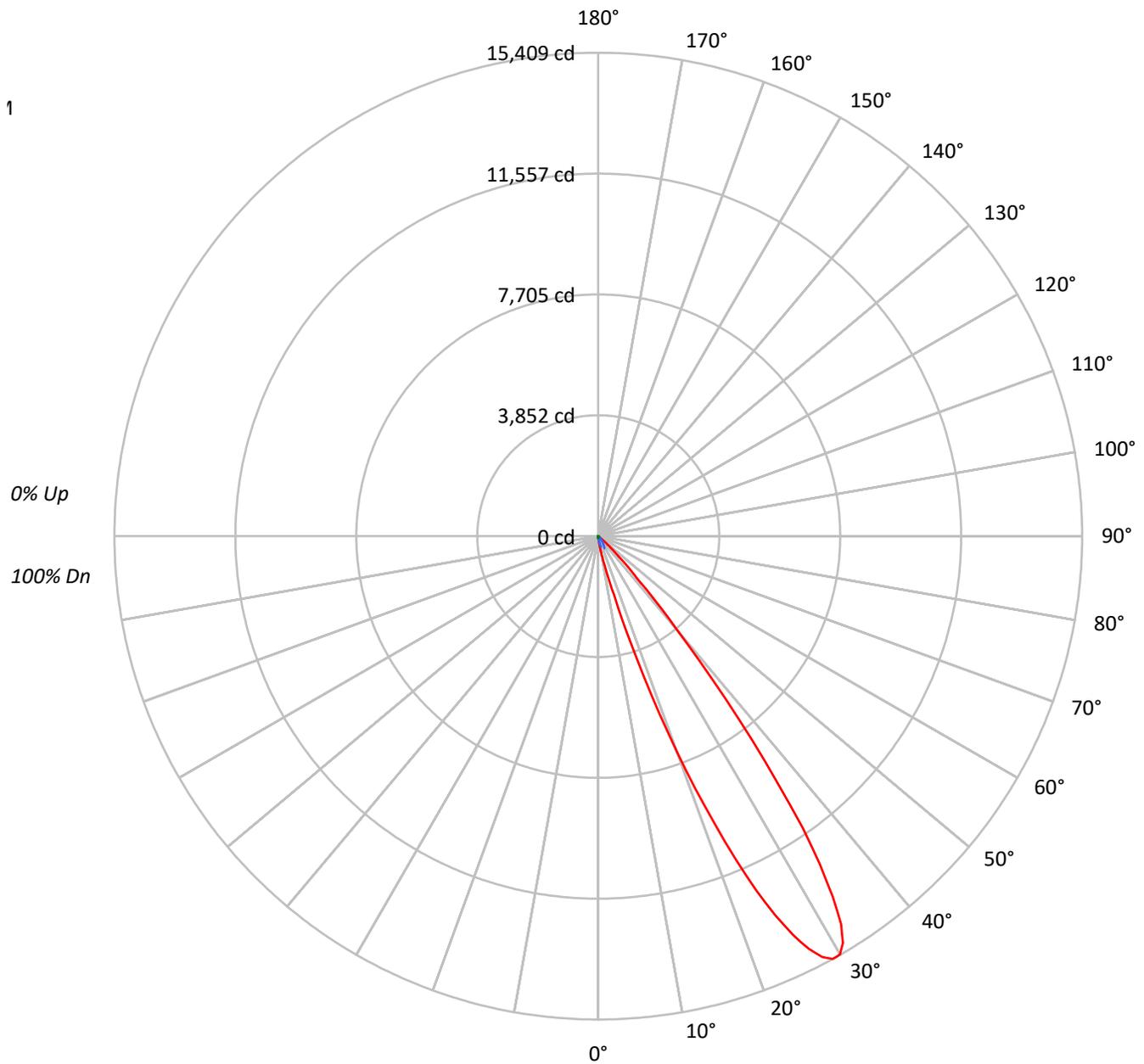
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1682.9 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
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	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	99	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	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	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	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

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

	0°	45°	90°	135°	180°
0°	9593	9593	9593	9593	9593
5°	20659	15283	9059	4806	3959
10°	91619	28925	7153	2011	1434
15°	346486	66844	4957	874	588
20°	1332505	94222	3006	293	293
25°	2533910	88343	1558	0	0
30°	3061018	71293	656	0	0
35°	2387374	48525	336	0	0
40°	871203	23921	360	0	360
45°	223685	7185	390	0	804
50°	37725	884	429	429	1313
55°	4924	0	991	1471	2462
60°	551	551	1688	2239	3376
65°	652	652	2649	3342	3994
70°	806	806	3273	3273	4129
75°	1065	1065	4325	3261	4325
80°	0	1587	4860	3273	4860
85°	0	3162	9683	3162	3162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 223685 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.6	0.5
10°-20°	128.9	7.7
20°-30°	715.3	42.5
30°-40°	691.0	41.1
40°-50°	120.2	7.1
50°-60°	8.6	0.5
60°-70°	5.1	0.3
70°-80°	4.1	0.2
80°-90°	2.1	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°	851.9	50.6
0°-40°	1542.9	91.7
0°-60°	1671.7	99.3
0°-90°	1682.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	120	88	52	28	23	23
15°	1943	375	28	5	3	866
25°	13334	465	8	0	0	5962
35°	11355	231	2	0	0	6531
45°	918	30	2	0	3	987
55°	16	0	3	5	8	32
65°	2	2	6	8	10	2
75°	2	2	6	5	6	1
85°	0	2	5	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°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	81.9	78.6	80.2	80.2	80.2	80.2	80.2	76.9	76.9	78.6	70.4
5°	119.5	119.5	117.9	119.5	119.5	117.9	114.6	113.0	113.0	109.7	88.4
7.5°	239.0	235.7	235.7	232.5	216.1	211.2	207.9	199.7	185.0	181.7	114.6
10°	523.9	525.5	514.1	499.3	497.7	473.1	464.9	450.2	422.4	394.5	165.4
12.5°	951.2	929.9	902.1	903.7	856.2	839.9	802.2	761.3	718.7	674.5	271.8
15°	1943.3	1882.7	1918.7	1830.3	1730.5	1617.5	1502.9	1358.8	1236.0	1105.1	374.9
17.5°	4092.8	4151.8	4051.9	3673.7	3441.3	3167.9	2783.1	2411.5	2093.9	1838.5	458.4
20°	7270.5	7357.3	7018.4	6689.3	6124.5	5509.0	4867.2	4140.3	3444.5	2842.1	514.1
21°	8598.2	8545.8	8406.7	7879.5	7228.0	6514.2	5728.3	4926.1	4083.0	3300.5	519.0
22°	9881.8	9906.3	9582.2	9030.4	8352.7	7561.9	6602.6	5612.1	4703.5	3673.7	510.8
23°	11160.4	11238.9	10810.0	10292.7	9439.7	8547.5	7437.5	6368.5	5245.4	4101.0	494.4
24°	12344.0	12290.0	12000.2	11348.6	10436.7	9392.2	8239.7	6943.1	5690.7	4466.1	481.3
25°	13334.5	13327.9	12872.8	12239.2	11196.4	10038.9	8768.5	7413.0	6072.1	4713.3	464.9
26°	14144.9	14012.2	13653.7	12881.0	11851.2	10629.9	9202.3	7755.1	6286.6	4837.7	448.6
27°	14770.2	14675.3	14194.0	13390.1	12314.5	10963.9	9480.7	7925.4	6384.8	4878.7	427.3
28°	15191.0	15087.8	14575.4	13747.0	12569.9	11173.5	9628.0	7997.4	6384.8	4839.4	407.6
29°	15408.7	15267.9	14757.1	13869.8	12628.9	11198.0	9592.0	7927.0	6285.0	4718.2	384.7
30°	15392.4	15217.2	14681.8	13758.5	12453.7	10996.6	9390.6	7673.3	6059.0	4538.1	358.5
31°	15127.1	14930.7	14333.1	13381.9	12091.9	10616.8	9010.8	7332.7	5749.6	4304.0	332.3
32°	14588.5	14339.7	13756.9	12809.0	11535.3	10048.7	8459.1	6807.2	5286.3	3961.9	304.5
33°	13711.0	13460.5	12835.1	11946.2	10782.2	9328.4	7727.3	6242.4	4759.2	3554.2	281.6
34°	12612.5	12383.3	11844.7	10949.2	9832.6	8416.5	6885.8	5461.5	4212.4	3149.8	257.0
35°	11355.2	10990.1	10502.2	9793.3	8704.7	7280.3	5977.2	4734.6	3649.2	2725.8	230.8
36°	9654.2	9719.7	9202.3	8334.7	7432.6	6316.1	5065.3	3947.1	3051.6	2323.1	207.9
37°	8146.4	8043.2	7714.2	7043.0	6257.1	5148.8	4245.1	3346.3	2567.0	1964.6	183.4
38°	6571.5	6594.4	6271.9	5756.2	4976.9	4233.6	3416.7	2748.8	2147.9	1671.5	160.4
39°	5143.9	5125.9	5039.1	4561.1	3855.5	3367.6	2768.4	2278.9	1789.4	1409.6	135.9
40°	3875.1	3904.6	3701.6	3413.4	3002.5	2601.4	2205.2	1817.2	1480.0	1188.6	106.4
42.5°	1884.3	1930.2	1795.9	1722.3	1540.5	1383.4	1167.3	952.8	810.4	700.7	47.5
45°	918.4	892.2	880.8	844.8	802.2	717.1	635.2	545.2	476.4	410.9	29.5
47.5°	469.9	456.8	456.8	442.0	427.3	399.5	358.5	329.1	296.3	255.4	11.5
50°	140.8	139.2	137.5	139.2	134.2	139.2	142.4	144.1	131.0	129.3	3.3
52.5°	55.7	57.3	55.7	60.6	60.6	58.9	60.6	58.9	57.3	50.8	0.0
55°	16.4	16.4	16.4	16.4	16.4	16.4	18.0	19.6	18.0	19.6	0.0
57.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1316842

CATALOG NUMBER: LDSQA3D20R159740D010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	65.5	57.3	47.5	39.3	36.0	34.4
5°	70.4	52.4	36.0	27.8	24.6	22.9
7.5°	75.3	47.5	27.8	19.6	14.7	13.1
10°	78.6	40.9	21.3	11.5	8.2	8.2
12.5°	78.6	32.7	14.7	6.5	4.9	4.9
15°	76.9	27.8	9.8	4.9	3.3	3.3
17.5°	75.3	21.3	6.5	3.3	1.6	3.3
20°	70.4	16.4	3.3	1.6	1.6	1.6
21°	68.8	14.7	3.3	1.6	1.6	1.6
22°	65.5	13.1	1.6	0.0	1.6	1.6
23°	62.2	9.8	1.6	0.0	0.0	0.0
24°	57.3	8.2	1.6	0.0	0.0	0.0
25°	54.0	8.2	1.6	0.0	0.0	0.0
26°	50.8	4.9	0.0	0.0	0.0	0.0
27°	45.8	3.3	0.0	0.0	0.0	0.0
28°	42.6	3.3	0.0	0.0	0.0	0.0
29°	37.7	3.3	0.0	0.0	0.0	0.0
30°	32.7	3.3	0.0	0.0	0.0	0.0
31°	26.2	1.6	0.0	0.0	0.0	0.0
32°	21.3	1.6	0.0	0.0	0.0	0.0
33°	14.7	1.6	0.0	0.0	0.0	0.0
34°	9.8	1.6	0.0	0.0	0.0	0.0
35°	8.2	1.6	0.0	0.0	0.0	0.0
36°	4.9	1.6	0.0	0.0	0.0	1.6
37°	4.9	1.6	0.0	0.0	0.0	1.6
38°	3.3	1.6	0.0	0.0	0.0	1.6
39°	1.6	1.6	0.0	0.0	0.0	1.6
40°	1.6	1.6	0.0	0.0	0.0	1.6
42.5°	0.0	1.6	0.0	0.0	1.6	3.3
45°	0.0	1.6	0.0	0.0	1.6	3.3
47.5°	0.0	1.6	0.0	0.0	3.3	3.3
50°	0.0	1.6	1.6	1.6	3.3	4.9
52.5°	0.0	3.3	1.6	3.3	4.9	6.5
55°	1.6	3.3	3.3	4.9	6.5	8.2
57.5°	1.6	4.9	4.9	6.5	8.2	8.2
60°	3.3	4.9	6.5	6.5	9.8	9.8
62.5°	3.3	6.5	6.5	6.5	9.8	9.8
65°	3.3	6.5	6.5	8.2	9.8	9.8
67.5°	3.3	6.5	6.5	6.5	8.2	9.8
70°	3.3	6.5	4.9	6.5	8.2	8.2
72.5°	3.3	6.5	4.9	4.9	6.5	8.2
75°	3.3	6.5	4.9	4.9	6.5	6.5
77.5°	3.3	4.9	4.9	3.3	4.9	4.9
80°	3.3	4.9	3.3	3.3	4.9	4.9



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.3	4.9	3.3	1.6	3.3	3.3
85°	3.3	4.9	3.3	1.6	1.6	1.6
87.5°	3.3	4.9	1.6	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)