

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: P1320198

Luminaire Tested: LDSQA3D17R159840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159840DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

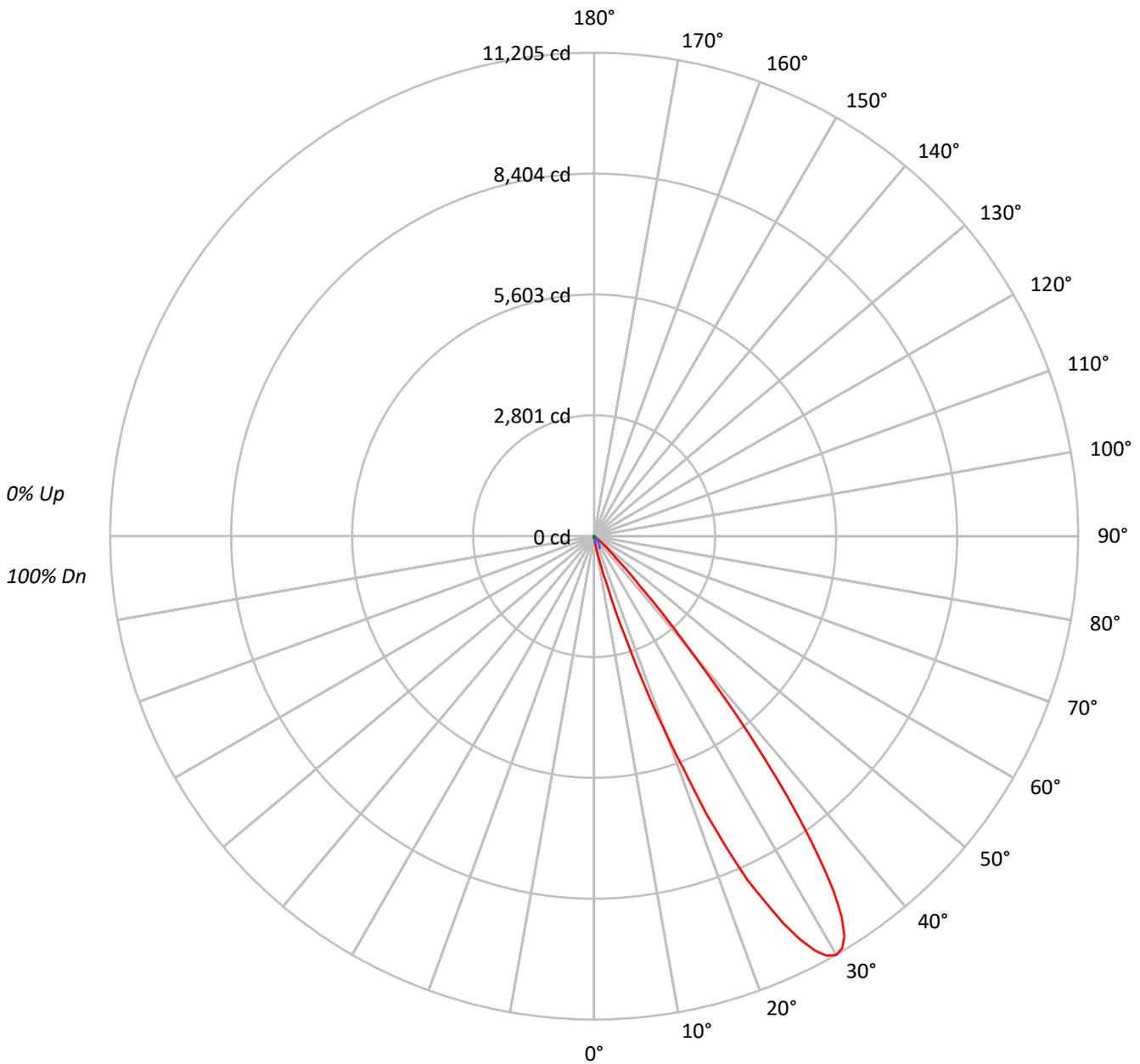
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1185.0 lumens  
Efficiency: N/A  
Efficacy: 58.1 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	94	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	75	71	79	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	7302	7302	7302	7302	7302
5°	21109	15940	6241	2593	1729
10°	54912	23749	4145	0	0
15°	219503	38887	2229	0	0
20°	896840	57329	678	0	0
25°	1772854	56837	0	0	0
30°	2228269	44844	0	0	0
35°	1901225	27500	0	0	0
40°	782736	8678	0	0	0
45°	169347	3653	0	0	0
50°	21702	0	0	0	0
55°	1862	0	360	0	0
60°	0	0	861	0	0
65°	0	0	1019	0	0
70°	0	604	1863	0	0
75°	0	799	2462	0	0
80°	0	1190	3670	0	0
85°	0	2371	7311	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 177238 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.7	0.5
10°-20°	83.0	7.0
20°-30°	484.0	40.8
30°-40°	519.0	43.8
40°-50°	87.6	7.4
50°-60°	2.6	0.2
60°-70°	0.8	0.1
70°-80°	1.1	0.1
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°	572.8	48.3
0°-40°	1091.8	92.1
0°-60°	1182.0	99.8
0°-90°	1185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	122	92	36	15	10	17
15°	1231	218	12	0	0	569
25°	9330	299	0	0	0	4221
35°	9043	131	0	0	0	5197
45°	695	15	0	0	0	821
55°	6	0	1	0	0	16
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
2.5°	77.3	78.5	79.7	79.7	79.7	79.7	78.5	78.5	78.5	78.5	77.3
5°	122.1	122.1	122.1	122.1	122.1	122.1	120.9	120.9	120.9	120.9	120.9
7.5°	174.5	172.0	173.2	169.5	172.0	170.7	169.5	172.0	172.0	165.7	165.7
10°	314.0	312.8	300.3	302.8	305.3	304.0	304.0	296.6	295.3	290.3	285.4
12.5°	605.6	619.3	629.3	629.3	605.6	614.3	598.1	601.9	604.4	596.9	570.7
15°	1231.1	1253.6	1229.9	1252.3	1243.6	1211.2	1175.1	1126.5	1145.2	1111.5	1100.3
17.5°	2696.5	2747.6	2726.4	2623.0	2656.7	2576.9	2527.1	2508.4	2456.0	2300.3	2235.5
20°	4893.4	4955.7	4897.1	4776.3	4814.9	4664.1	4625.5	4589.4	4357.6	4272.8	4001.2
21°	5818.0	5869.1	5891.5	5765.7	5688.4	5568.8	5469.1	5436.7	5295.9	5132.7	4853.5
22°	6934.5	6874.7	6740.1	6757.6	6642.9	6544.5	6406.2	6275.3	6118.3	5890.3	5659.7
23°	7859.1	7789.3	7725.8	7648.5	7525.1	7455.4	7257.2	7113.9	6909.6	6665.3	6443.5
24°	8720.1	8613.0	8573.1	8436.0	8401.1	8244.1	8083.4	7896.5	7649.8	7389.3	7143.8
25°	9329.5	9345.7	9310.8	9294.6	9116.4	8955.7	8796.2	8508.3	8297.7	8067.2	7689.6
26°	9982.4	9989.9	9972.5	9852.8	9692.1	9535.1	9329.5	9079.0	8773.7	8518.3	8176.9
27°	10482.1	10452.2	10427.3	10285.2	10153.2	9955.0	9768.1	9471.5	9173.7	8869.7	8473.4
28°	10880.9	10824.8	10793.6	10671.5	10517.0	10274.0	10044.7	9768.1	9470.3	9143.8	8715.2
29°	11121.4	11061.6	11026.7	10892.1	10713.9	10500.8	10269.0	9965.0	9644.7	9280.9	8849.7
30°	11204.9	11170.0	11115.1	10975.6	10791.2	10569.3	10331.3	10001.1	9665.9	9293.4	8837.3
31°	11150.0	11105.2	11052.8	10902.1	10702.7	10490.8	10214.2	9867.8	9515.2	9160.0	8676.5
32°	10932.0	10904.5	10841.0	10639.1	10477.1	10203.0	9930.1	9606.1	9221.1	8839.8	8402.4
33°	10523.2	10478.4	10423.6	10239.1	10032.3	9769.4	9497.7	9166.3	8783.7	8381.2	7900.2
34°	9900.2	9842.9	9774.3	9651.0	9386.8	9158.8	8844.8	8457.2	8140.7	7754.4	7319.5
35°	9042.9	8959.4	8877.2	8783.7	8487.1	8276.5	8064.7	7727.0	7421.7	7057.9	6565.7
36°	8080.9	8048.5	7981.2	7734.5	7638.5	7351.9	7181.2	6793.7	6547.0	6190.6	5784.4
37°	6993.1	6802.4	6899.6	6761.3	6472.2	6382.5	6179.4	5846.7	5580.0	5203.7	4909.6
38°	5826.7	5702.1	5770.7	5631.1	5480.3	5273.5	5118.9	4876.0	4576.9	4281.6	4002.4
39°	4618.0	4517.1	4591.8	4497.1	4267.9	4181.9	4044.8	3859.1	3618.7	3388.1	3124.0
40°	3481.6	3352.0	3451.7	3317.1	3212.4	3071.6	3001.8	2831.1	2681.6	2543.3	2375.1
42.5°	1590.0	1576.3	1553.9	1505.3	1494.1	1495.3	1409.3	1353.3	1277.2	1188.8	1135.2
45°	695.3	712.8	727.7	700.3	699.1	684.1	679.1	641.7	626.8	598.1	563.2
47.5°	342.7	348.9	345.2	352.6	346.4	336.4	334.0	329.0	314.0	312.8	296.6
50°	81.0	79.7	79.7	81.0	79.7	79.7	78.5	76.0	74.8	76.0	72.3
52.5°	26.2	27.4	26.2	24.9	26.2	27.4	26.2	26.2	26.2	26.2	26.2
55°	6.2	6.2	6.2	6.2	6.2	6.2	5.0	5.0	6.2	6.2	6.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
2.5°	76.0	64.8	53.6	42.4	31.2	24.9	23.7	22.4
5°	114.6	92.2	61.1	36.1	21.2	15.0	11.2	10.0
7.5°	154.5	114.6	67.3	29.9	15.0	6.2	2.5	1.2
10°	221.8	135.8	69.8	23.7	7.5	0.0	0.0	0.0
12.5°	434.9	155.8	68.5	18.7	1.2	0.0	0.0	0.0
15°	722.7	218.1	63.6	12.5	0.0	0.0	0.0	0.0
17.5°	1183.8	281.6	54.8	8.7	0.0	0.0	0.0	0.0
20°	1835.5	312.8	42.4	3.7	0.0	0.0	0.0	0.0
21°	2152.0	315.3	37.4	2.5	0.0	0.0	0.0	0.0
22°	2426.1	315.3	32.4	1.2	0.0	0.0	0.0	0.0
23°	2680.3	311.5	28.7	0.0	0.0	0.0	0.0	0.0
24°	2889.7	306.5	26.2	0.0	0.0	0.0	0.0	0.0
25°	3046.7	299.1	23.7	0.0	0.0	0.0	0.0	0.0
26°	3119.0	289.1	19.9	0.0	0.0	0.0	0.0	0.0
27°	3155.1	275.4	17.4	0.0	0.0	0.0	0.0	0.0
28°	3130.2	260.4	15.0	0.0	0.0	0.0	0.0	0.0
29°	3067.9	244.2	11.2	0.0	0.0	0.0	0.0	0.0
30°	2986.9	225.5	8.7	0.0	0.0	0.0	0.0	0.0
31°	2868.5	206.9	6.2	0.0	0.0	0.0	0.0	0.0
32°	2706.5	188.2	5.0	0.0	0.0	0.0	0.0	0.0
33°	2489.7	168.2	2.5	0.0	0.0	0.0	0.0	0.0
34°	2221.8	148.3	1.2	0.0	0.0	0.0	0.0	0.0
35°	1921.5	130.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	1663.5	112.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	1404.3	89.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	1176.3	71.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	973.2	57.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	806.2	38.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	446.1	26.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	270.4	15.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	157.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	59.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.5	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.5	2.5	1.2	0.0	0.0	0.0
67.5°	0.0	0.0	2.5	3.7	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.5	3.7	1.2	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	1.2	2.5	3.7	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.5	3.7	1.2	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)