

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: P1320281

Luminaire Tested: LDSQA3D17R409840DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

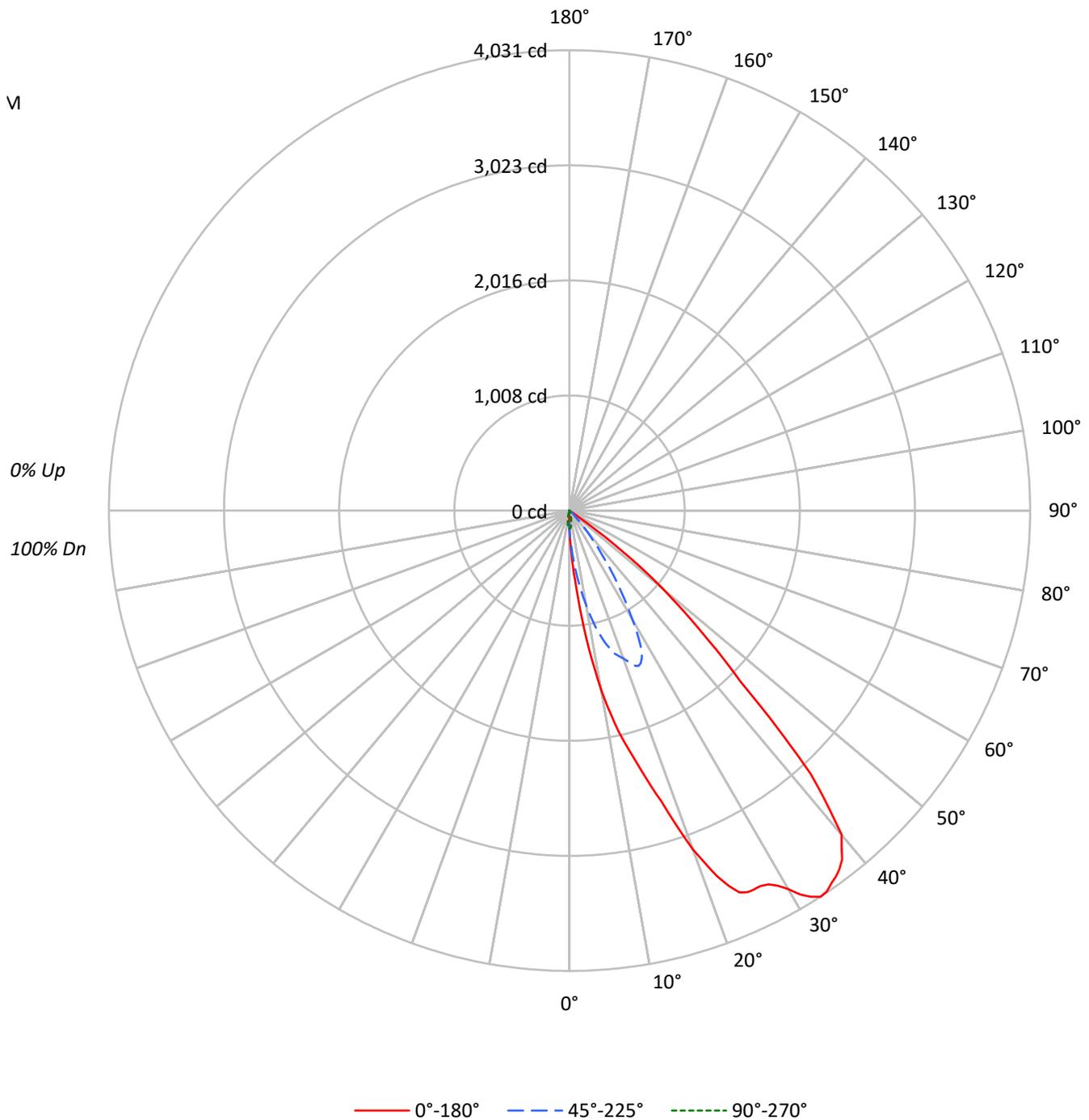
Test Method: LM-79-2019  
Report Number: P1320281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R409840DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1353.0 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
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 (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





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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	27246	27246	27246	27246	27246
5°	115674	78834	23909	4305	2161
10°	278041	146654	14812	437	0
15°	409230	213048	6223	0	0
20°	578454	252572	2291	0	0
25°	700628	280346	0	0	0
30°	760720	219289	0	0	0
35°	838836	128376	0	0	0
40°	832556	52113	0	0	0
45°	515616	15174	0	0	0
50°	287115	322	0	0	0
55°	28074	0	0	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	604	1259	0	0
75°	0	799	1664	0	0
80°	0	1190	2479	0	0
85°	0	2371	4940	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 518051 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	2.2
10°-20°	174.4	12.9
20°-30°	398.1	29.4
30°-40°	470.1	34.7
40°-50°	251.1	18.6
50°-60°	27.3	2.0
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	0.9	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°	602.1	44.5
0°-40°	1072.2	79.2
0°-60°	1350.6	99.8
0°-90°	1353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	158	158	158	158	158	
5°	669	456	138	25	12	94
15°	2295	1195	35	0	0	682
25°	3687	1475	0	0	0	1674
35°	3990	611	0	0	0	2464
45°	2117	62	0	0	0	1745
55°	94	0	0	0	0	262
65°	0	0	1	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°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2	158.2
2.5°	368.8	361.4	366.3	356.4	356.4	333.9	335.2	316.5	289.1	220.5	157.0
5°	669.1	699.0	675.4	644.2	626.8	604.3	574.4	543.3	456.0	275.4	138.3
7.5°	1120.2	1117.7	1077.8	1044.2	1005.6	945.7	889.7	813.7	649.2	315.2	114.6
10°	1589.9	1581.2	1536.4	1507.7	1434.2	1348.2	1233.6	1111.5	838.6	329.0	84.7
12.5°	1981.2	1970.0	1932.6	1884.0	1803.0	1694.6	1571.3	1410.5	1037.9	314.0	54.8
15°	2295.2	2292.7	2256.6	2190.5	2105.8	1999.9	1860.3	1667.2	1194.9	275.4	34.9
17.5°	2667.8	2682.7	2617.9	2546.9	2424.8	2276.5	2105.8	1885.3	1310.8	228.0	22.4
20°	3156.2	3135.0	3075.2	2971.8	2854.7	2676.5	2434.8	2119.5	1378.1	176.9	12.5
21°	3305.7	3297.0	3234.7	3138.8	3009.2	2828.5	2579.3	2239.1	1409.3	158.2	10.0
22°	3457.8	3442.8	3394.2	3300.8	3178.6	2974.3	2700.2	2362.5	1449.1	138.3	6.2
23°	3571.1	3564.9	3527.5	3435.3	3309.5	3111.4	2831.0	2477.1	1476.6	119.6	3.7
24°	3658.4	3650.9	3613.5	3543.7	3435.3	3228.5	2963.1	2600.5	1487.8	103.4	1.2
25°	3687.0	3690.8	3668.3	3613.5	3522.5	3315.7	3061.5	2697.7	1475.3	88.5	0.0
26°	3688.3	3699.5	3683.3	3652.1	3577.4	3385.5	3153.7	2755.0	1442.9	74.8	0.0
27°	3688.3	3699.5	3683.3	3659.6	3586.1	3425.4	3203.6	2761.2	1393.1	63.5	0.0
28°	3705.7	3711.9	3690.8	3662.1	3582.4	3437.8	3217.3	2723.8	1313.3	54.8	0.0
29°	3754.3	3748.1	3713.2	3674.6	3578.6	3437.8	3176.1	2652.8	1213.6	46.1	0.0
30°	3825.3	3825.3	3770.5	3709.5	3596.1	3436.6	3110.1	2524.5	1102.7	37.4	0.0
31°	3921.3	3912.6	3857.7	3766.8	3633.4	3436.6	3012.9	2382.4	1000.6	32.4	0.0
32°	3986.1	3981.1	3928.8	3821.6	3694.5	3436.6	2908.2	2225.4	889.7	26.2	0.0
33°	4030.9	4021.0	3961.1	3850.3	3731.9	3419.1	2791.1	2057.2	790.0	21.2	0.0
34°	4024.7	4022.2	3959.9	3845.3	3724.4	3346.9	2655.3	1870.3	697.8	17.4	0.0
35°	3989.8	3989.8	3913.8	3795.4	3670.8	3240.9	2520.7	1710.8	610.6	12.5	0.0
36°	3963.6	3953.7	3867.7	3735.6	3581.1	3074.0	2321.4	1550.1	517.1	10.0	0.0
37°	3925.0	3906.3	3810.4	3668.3	3454.0	2893.3	2112.0	1406.8	437.4	6.2	0.0
38°	3875.2	3846.5	3729.4	3589.8	3314.5	2685.2	1899.0	1246.0	363.8	3.7	0.0
39°	3784.2	3760.5	3639.7	3488.9	3147.5	2465.9	1692.1	1095.3	294.1	1.2	0.0
40°	3703.2	3662.1	3525.0	3351.8	2951.9	2217.9	1486.5	947.0	231.8	0.0	0.0
42.5°	3122.6	3079.0	3047.8	2875.9	2351.3	1592.4	1037.9	606.8	120.9	0.0	0.0
45°	2117.0	2127.0	2029.8	1913.9	1551.3	1037.9	649.2	337.7	62.3	0.0	0.0
47.5°	1543.8	1517.7	1385.6	1166.3	909.6	606.8	338.9	163.2	24.9	0.0	0.0
50°	1071.6	1021.7	902.1	737.7	494.7	289.1	149.5	76.0	1.2	0.0	0.0
52.5°	581.9	547.0	463.5	336.4	205.6	110.9	59.8	31.2	0.0	0.0	0.0
55°	93.5	64.8	67.3	57.3	44.9	32.4	18.7	3.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	1.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
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):**

	112.5°	135°	157.5°	180°
0°	158.2	158.2	158.2	158.2
2.5°	105.9	72.3	54.8	47.3
5°	61.1	24.9	13.7	12.5
7.5°	29.9	8.7	5.0	5.0
10°	12.5	2.5	0.0	0.0
12.5°	3.7	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.2	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)