

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: P1316840

Luminaire Tested: LDSQA3D20R159740D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

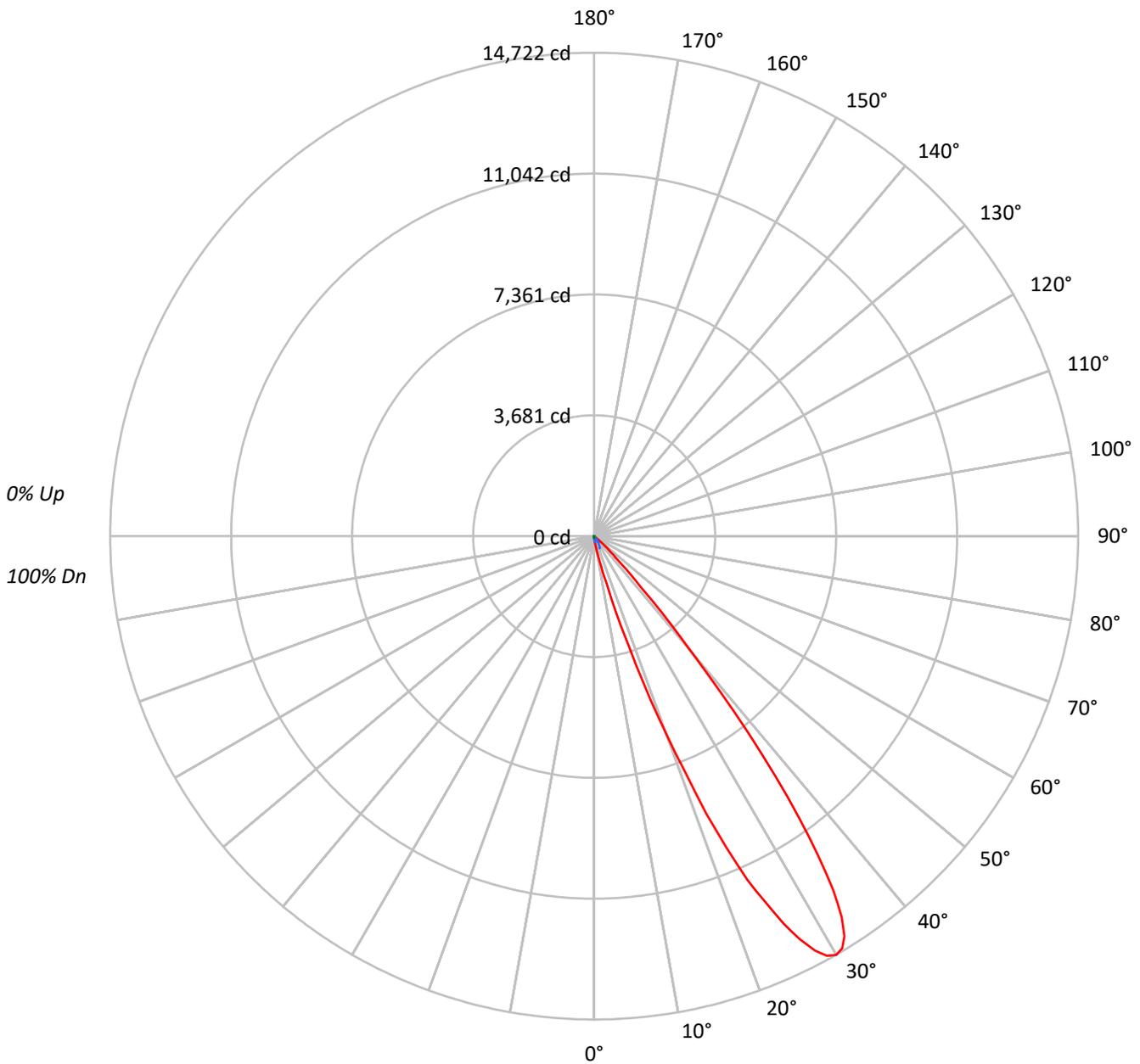
Test Method: LM-79-2019  
Report Number: P1316840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159740D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1557.0 lumens  
Efficiency: N/A  
Efficacy: 54.1 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): 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	94	96	95	94	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	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	9593	9593	9593	9593	9593
5°	27747	20953	8212	3388	2265
10°	72155	31216	5439	0	0
15°	288415	51082	2924	0	0
20°	1178388	75326	898	0	0
25°	2329385	74661	0	0	0
30°	2927759	58924	0	0	0
35°	2498068	36141	0	0	0
40°	1028442	11421	0	0	0
45°	222516	4774	0	0	0
50°	28508	0	0	0	0
55°	2462	0	480	0	0
60°	0	0	1137	0	0
65°	0	0	1345	0	0
70°	0	806	2467	0	0
75°	0	1065	3261	0	0
80°	0	1587	4860	0	0
85°	0	3162	9683	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 232892 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.5	0.5
10°-20°	109.1	7.0
20°-30°	636.0	40.8
30°-40°	681.9	43.8
40°-50°	115.1	7.4
50°-60°	3.5	0.2
60°-70°	1.0	0.1
70°-80°	1.5	0.1
80°-90°	1.4	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°	752.6	48.3
0°-40°	1434.5	92.1
0°-60°	1553.1	99.8
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	56	56	56	56	56	
5°	160	121	48	20	13	22
15°	1618	286	16	0	0	748
25°	12258	393	0	0	0	5546
35°	11882	172	0	0	0	6828
45°	914	20	0	0	0	1079
55°	8	0	2	0	0	21
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	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°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	101.5	103.1	104.8	104.8	104.8	104.8	103.1	103.1	103.1	103.1	101.5
5°	160.5	160.5	160.5	160.5	160.5	160.5	158.8	158.8	158.8	158.8	158.8
7.5°	229.2	225.9	227.6	222.7	225.9	224.3	222.7	225.9	225.9	217.8	217.8
10°	412.6	411.0	394.6	397.9	401.1	399.5	399.5	389.7	388.0	381.5	374.9
12.5°	795.7	813.7	826.8	826.8	795.7	807.2	785.9	790.8	794.1	784.3	749.9
15°	1617.6	1647.1	1616.0	1645.5	1634.0	1591.4	1543.9	1480.1	1504.7	1460.4	1445.7
17.5°	3543.1	3610.2	3582.3	3446.5	3490.7	3385.9	3320.4	3295.8	3227.1	3022.4	2937.3
20°	6429.6	6511.4	6434.5	6275.7	6326.4	6128.3	6077.5	6030.1	5725.5	5614.2	5257.3
21°	7644.4	7711.5	7741.0	7575.6	7474.1	7317.0	7186.0	7143.4	6958.4	6743.9	6377.2
22°	9111.4	9032.8	8856.0	8878.9	8728.3	8598.9	8417.2	8245.3	8039.0	7739.4	7436.5
23°	10326.3	10234.6	10151.1	10049.6	9887.5	9795.8	9535.5	9347.2	9078.7	8757.8	8466.3
24°	11457.6	11316.8	11264.4	11084.3	11038.5	10832.2	10621.0	10375.4	10051.2	9709.0	9386.5
25°	12258.2	12279.5	12233.7	12212.4	11978.3	11767.1	11557.5	11179.3	10902.6	10599.7	10103.6
26°	13116.2	13126.0	13103.1	12945.9	12734.7	12528.4	12258.2	11929.1	11528.0	11192.4	10743.8
27°	13772.7	13733.4	13700.7	13514.0	13340.5	13080.1	12834.6	12444.9	12053.6	11654.1	11133.4
28°	14296.6	14223.0	14182.0	14021.6	13818.6	13499.3	13198.0	12834.6	12443.3	12014.3	11451.1
29°	14612.6	14534.0	14488.2	14311.4	14077.2	13797.3	13492.7	13093.2	12672.5	12194.4	11627.9
30°	14722.3	14676.5	14604.4	14421.1	14178.8	13887.3	13574.6	13140.7	12700.3	12210.8	11611.5
31°	14650.3	14591.3	14522.6	14324.5	14062.5	13784.2	13420.7	12965.5	12502.2	12035.6	11400.3
32°	14363.8	14327.7	14244.2	13979.0	13766.2	13406.0	13047.4	12621.7	12115.8	11614.8	11040.1
33°	13826.7	13767.8	13695.8	13453.4	13181.7	12836.2	12479.3	12043.8	11541.1	11012.3	10380.3
34°	13008.1	12932.8	12842.7	12680.7	12333.6	12033.9	11621.3	11112.1	10696.3	10188.7	9617.3
35°	11881.7	11772.0	11663.9	11541.1	11151.4	10874.7	10596.4	10152.7	9751.6	9273.5	8626.8
36°	10617.7	10575.1	10486.7	10162.5	10036.5	9659.9	9435.6	8926.4	8602.2	8134.0	7600.2
37°	9188.4	8937.9	9065.6	8883.8	8504.0	8386.1	8119.2	7682.1	7331.7	6837.2	6450.8
38°	7655.9	7492.1	7582.2	7398.8	7200.7	6928.9	6725.9	6406.6	6013.7	5625.7	5258.9
39°	6067.7	5935.1	6033.3	5908.9	5607.6	5494.7	5314.6	5070.6	4754.6	4451.7	4104.6
40°	4574.5	4404.3	4535.2	4358.4	4220.9	4035.9	3944.2	3719.9	3523.4	3341.7	3120.6
42.5°	2089.2	2071.1	2041.7	1977.8	1963.1	1964.7	1851.8	1778.1	1678.2	1562.0	1491.6
45°	913.6	936.5	956.2	920.1	918.5	898.9	892.3	843.2	823.5	785.9	740.0
47.5°	450.2	458.4	453.5	463.3	455.2	442.1	438.8	432.2	412.6	411.0	389.7
50°	106.4	104.8	104.8	106.4	104.8	104.8	103.1	99.9	98.2	99.9	95.0
52.5°	34.4	36.0	34.4	32.7	34.4	36.0	34.4	34.4	34.4	34.4	34.4
55°	8.2	8.2	8.2	8.2	8.2	8.2	6.5	6.5	8.2	8.2	8.2
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°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	99.9	85.1	70.4	55.7	40.9	32.7	31.1	29.5
5°	150.6	121.2	80.2	47.5	27.8	19.6	14.7	13.1
7.5°	203.0	150.6	88.4	39.3	19.6	8.2	3.3	1.6
10°	291.4	178.5	91.7	31.1	9.8	0.0	0.0	0.0
12.5°	571.4	204.7	90.0	24.6	1.6	0.0	0.0	0.0
15°	949.6	286.5	83.5	16.4	0.0	0.0	0.0	0.0
17.5°	1555.4	370.0	72.0	11.5	0.0	0.0	0.0	0.0
20°	2411.7	411.0	55.7	4.9	0.0	0.0	0.0	0.0
21°	2827.6	414.2	49.1	3.3	0.0	0.0	0.0	0.0
22°	3187.8	414.2	42.6	1.6	0.0	0.0	0.0	0.0
23°	3521.8	409.3	37.7	0.0	0.0	0.0	0.0	0.0
24°	3796.8	402.8	34.4	0.0	0.0	0.0	0.0	0.0
25°	4003.1	392.9	31.1	0.0	0.0	0.0	0.0	0.0
26°	4098.1	379.8	26.2	0.0	0.0	0.0	0.0	0.0
27°	4145.6	361.8	22.9	0.0	0.0	0.0	0.0	0.0
28°	4112.8	342.2	19.6	0.0	0.0	0.0	0.0	0.0
29°	4031.0	320.9	14.7	0.0	0.0	0.0	0.0	0.0
30°	3924.5	296.3	11.5	0.0	0.0	0.0	0.0	0.0
31°	3769.0	271.8	8.2	0.0	0.0	0.0	0.0	0.0
32°	3556.1	247.2	6.5	0.0	0.0	0.0	0.0	0.0
33°	3271.3	221.0	3.3	0.0	0.0	0.0	0.0	0.0
34°	2919.3	194.8	1.6	0.0	0.0	0.0	0.0	0.0
35°	2524.7	171.9	0.0	0.0	0.0	0.0	0.0	0.0
36°	2185.8	147.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	1845.2	117.9	0.0	0.0	0.0	0.0	0.0	0.0
38°	1545.6	93.3	0.0	0.0	0.0	0.0	0.0	0.0
39°	1278.7	75.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	1059.3	50.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	586.1	34.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	355.3	19.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	206.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	78.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.5	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.3	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.3	3.3	1.6	0.0	0.0	0.0
67.5°	0.0	0.0	3.3	4.9	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.3	4.9	1.6	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	1.6	3.3	4.9	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.3	4.9	1.6	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)