

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: P1320360

Luminaire Tested: LDSQA3D20R209840D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

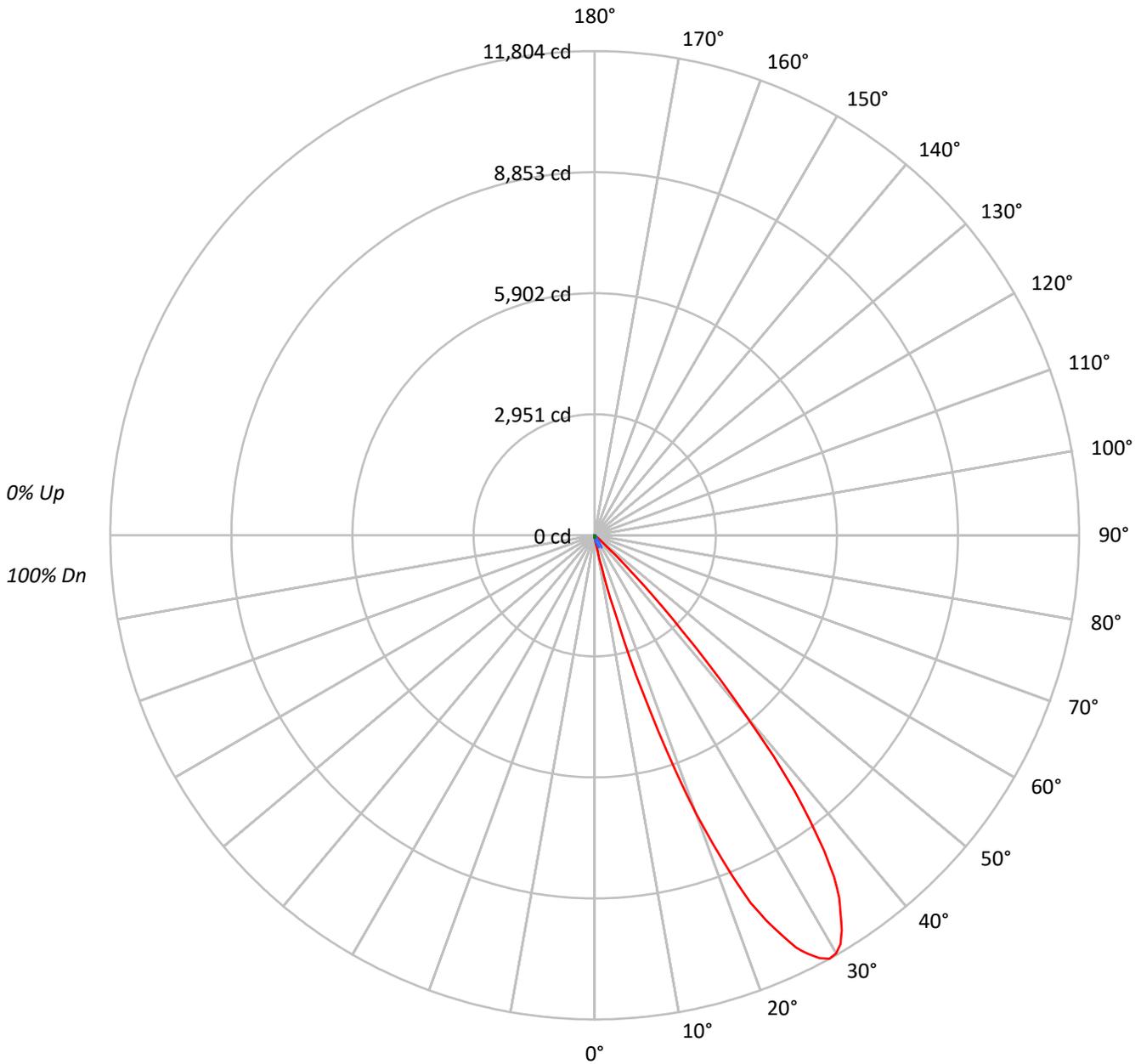
Test Method: LM-79-2019  
Report Number: P1320360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209840D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1629.0 lumens  
Efficiency: N/A  
Efficacy: 59.5 lumens/watt  
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
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



— 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	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	38	60	50	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°	10041	10041	10041	10041	10041
5°	21852	15404	9249	4201	3077
10°	54405	27194	6523	857	0
15°	382734	37264	3762	0	0
20°	1322791	62644	1485	0	0
25°	2038967	80039	608	0	0
30°	2340330	61867	0	0	0
35°	2137372	23505	0	0	0
40°	1281366	10926	0	0	0
45°	314874	5139	0	0	0
50°	34724	1313	0	0	0
55°	4864	0	480	0	0
60°	0	0	1102	0	0
65°	0	0	1304	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: 1°  
 Vertical Angle: 45°  
 Luminance: 335796 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.6	0.4
10°-20°	127.2	7.8
20°-30°	643.5	39.5
30°-40°	696.2	42.7
40°-50°	147.1	9.0
50°-60°	4.4	0.3
60°-70°	1.1	0.1
70°-80°	1.5	0.1
80°-90°	1.3	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°	777.4	47.7
0°-40°	1473.6	90.5
0°-60°	1625.1	99.8
0°-90°	1629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	126	89	54	24	18	18
15°	2147	209	21	0	0	895
25°	10730	421	3	0	0	4850
35°	10166	112	0	0	0	5995
45°	1293	21	0	0	0	1422
55°	16	0	2	0	0	29
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°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2.5°	79.4	77.8	79.4	77.8	79.4	79.4	79.4	77.8	77.8	77.8	77.8
5°	126.4	126.4	124.7	126.4	126.4	126.4	126.4	124.7	124.7	123.1	123.1
7.5°	199.3	199.3	197.7	197.7	199.3	200.9	194.4	197.7	197.7	197.7	196.0
10°	311.1	317.5	311.1	319.2	312.7	307.8	315.9	307.8	307.8	306.2	301.3
12.5°	784.1	766.3	755.0	727.4	755.0	733.9	738.8	733.9	717.7	696.6	683.7
15°	2146.6	2146.6	2083.4	2167.7	2106.1	2128.8	2012.2	2013.8	1953.8	1889.0	1853.4
17.5°	4487.7	4528.2	4486.1	4460.1	4405.0	4325.7	4293.3	4210.6	4102.1	3975.7	3961.1
20°	7217.5	7047.4	7126.8	7053.9	7008.5	6911.3	6802.8	6734.7	6639.2	6478.8	6242.2
21°	8076.2	8069.7	8068.1	8066.5	8000.0	7841.3	7742.4	7606.4	7471.9	7306.6	7109.0
22°	8941.3	8972.1	8985.1	8891.1	8755.0	8683.7	8615.7	8429.4	8217.1	8131.3	7896.4
23°	9735.2	9706.0	9621.8	9578.0	9472.7	9451.7	9249.1	9130.9	8923.5	8829.5	8550.9
24°	10276.3	10261.7	10222.8	10158.0	10073.8	9944.2	9822.7	9636.3	9466.2	9312.3	9053.1
25°	10729.9	10742.9	10671.6	10627.8	10537.1	10391.3	10242.3	10038.1	9879.4	9699.5	9399.8
26°	11178.7	11087.9	11031.2	10966.4	10867.6	10700.7	10556.6	10373.5	10180.7	9979.8	9686.6
27°	11455.7	11374.7	11288.8	11225.7	11112.3	10953.5	10799.6	10597.1	10381.6	10179.1	9877.7
28°	11674.4	11585.3	11501.1	11424.9	11295.3	11125.2	10940.5	10734.8	10511.2	10302.2	9994.4
29°	11804.0	11698.7	11608.0	11522.1	11403.9	11219.2	11032.9	10812.5	10597.1	10378.3	10064.0
30°	11768.4	11677.7	11590.2	11502.7	11382.8	11209.5	11024.8	10814.2	10597.1	10381.6	10062.4
31°	11629.1	11517.3	11454.1	11366.6	11262.9	11086.3	10927.6	10697.5	10501.5	10268.2	9949.0
32°	11361.7	11290.5	11206.2	11138.2	11037.7	10849.8	10694.3	10506.3	10274.7	10083.5	9748.1
33°	10998.8	10932.4	10890.3	10810.9	10713.7	10584.1	10397.8	10226.1	9965.2	9769.2	9433.8
34°	10652.1	10567.9	10462.6	10439.9	10355.7	10188.8	10020.3	9845.3	9612.0	9362.5	9023.9
35°	10166.1	10078.6	9981.4	9989.5	9889.1	9694.7	9522.9	9326.9	9104.9	8811.7	8490.9
36°	9516.5	9458.1	9443.6	9404.7	9289.6	9058.0	8894.3	8648.1	8461.8	8103.7	7828.3
37°	8724.2	8745.3	8640.0	8589.8	8455.3	8293.3	8200.9	7885.0	7667.9	7399.0	7026.4
38°	7923.9	7893.1	7768.4	7799.2	7614.5	7446.0	7185.1	6997.2	6754.2	6504.7	6206.6
39°	6924.3	6848.2	6699.1	6705.6	6566.3	6376.7	6124.0	5902.0	5756.2	5516.4	5231.3
40°	5699.5	5667.1	5615.3	5529.4	5346.3	5263.7	5038.5	4798.7	4675.6	4343.5	4204.2
42.5°	3162.4	3118.7	3031.2	3000.4	2903.2	2806.0	2674.8	2514.4	2436.6	2337.8	2117.5
45°	1292.8	1378.7	1357.6	1333.3	1258.8	1263.7	1169.7	1181.1	1095.2	1036.9	996.4
47.5°	285.1	309.4	311.1	299.7	311.1	301.3	296.5	288.4	290.0	294.9	283.5
50°	129.6	128.0	131.2	129.6	128.0	126.4	124.7	119.9	123.1	119.9	116.6
52.5°	50.2	51.8	51.8	48.6	50.2	50.2	50.2	48.6	48.6	48.6	48.6
55°	16.2	16.2	16.2	14.6	14.6	16.2	16.2	16.2	16.2	16.2	14.6
57.5°	1.6	3.2	1.6	3.2	1.6	1.6	1.6	1.6	1.6	3.2	3.2
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°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
2.5°	74.5	68.0	63.2	58.3	48.6	40.5	37.3	37.3
5°	115.0	89.1	66.4	53.5	37.3	24.3	19.4	17.8
7.5°	173.4	119.9	69.7	45.4	24.3	13.0	8.1	6.5
10°	251.1	155.5	72.9	37.3	14.6	4.9	0.0	0.0
12.5°	439.0	186.3	72.9	29.2	6.5	0.0	0.0	0.0
15°	1006.1	209.0	69.7	21.1	1.6	0.0	0.0	0.0
17.5°	2089.9	262.5	61.6	14.6	0.0	0.0	0.0	0.0
20°	3337.4	341.8	48.6	8.1	0.0	0.0	0.0	0.0
21°	3851.0	369.4	43.7	6.5	0.0	0.0	0.0	0.0
22°	4220.4	395.3	38.9	4.9	0.0	0.0	0.0	0.0
23°	4627.0	411.5	34.0	3.2	0.0	0.0	0.0	0.0
24°	4926.7	421.2	29.2	3.2	0.0	0.0	0.0	0.0
25°	5113.0	421.2	25.9	3.2	0.0	0.0	0.0	0.0
26°	5223.2	411.5	22.7	1.6	0.0	0.0	0.0	0.0
27°	5249.1	395.3	19.4	1.6	0.0	0.0	0.0	0.0
28°	5216.7	374.2	16.2	0.0	0.0	0.0	0.0	0.0
29°	5114.6	343.5	14.6	0.0	0.0	0.0	0.0	0.0
30°	5004.5	311.1	11.3	0.0	0.0	0.0	0.0	0.0
31°	4816.6	267.3	9.7	0.0	0.0	0.0	0.0	0.0
32°	4599.5	222.0	8.1	0.0	0.0	0.0	0.0	0.0
33°	4309.5	175.0	6.5	0.0	0.0	0.0	0.0	0.0
34°	3881.8	137.7	6.5	0.0	0.0	0.0	0.0	0.0
35°	3497.8	111.8	4.9	0.0	0.0	0.0	0.0	0.0
36°	2995.6	89.1	4.9	0.0	0.0	0.0	0.0	0.0
37°	2566.2	74.5	4.9	0.0	0.0	0.0	0.0	0.0
38°	2148.2	63.2	3.2	0.0	0.0	0.0	0.0	0.0
39°	1743.2	55.1	3.2	0.0	0.0	0.0	0.0	0.0
40°	1390.0	48.6	3.2	0.0	0.0	0.0	0.0	0.0
42.5°	750.1	32.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	414.7	21.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	183.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	61.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	3.2	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.2	3.2	1.6	0.0	0.0	0.0
67.5°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.2	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	3.2	4.9	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.2	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)