

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: P1315886

Luminaire Tested: LDSQA3D20R209735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

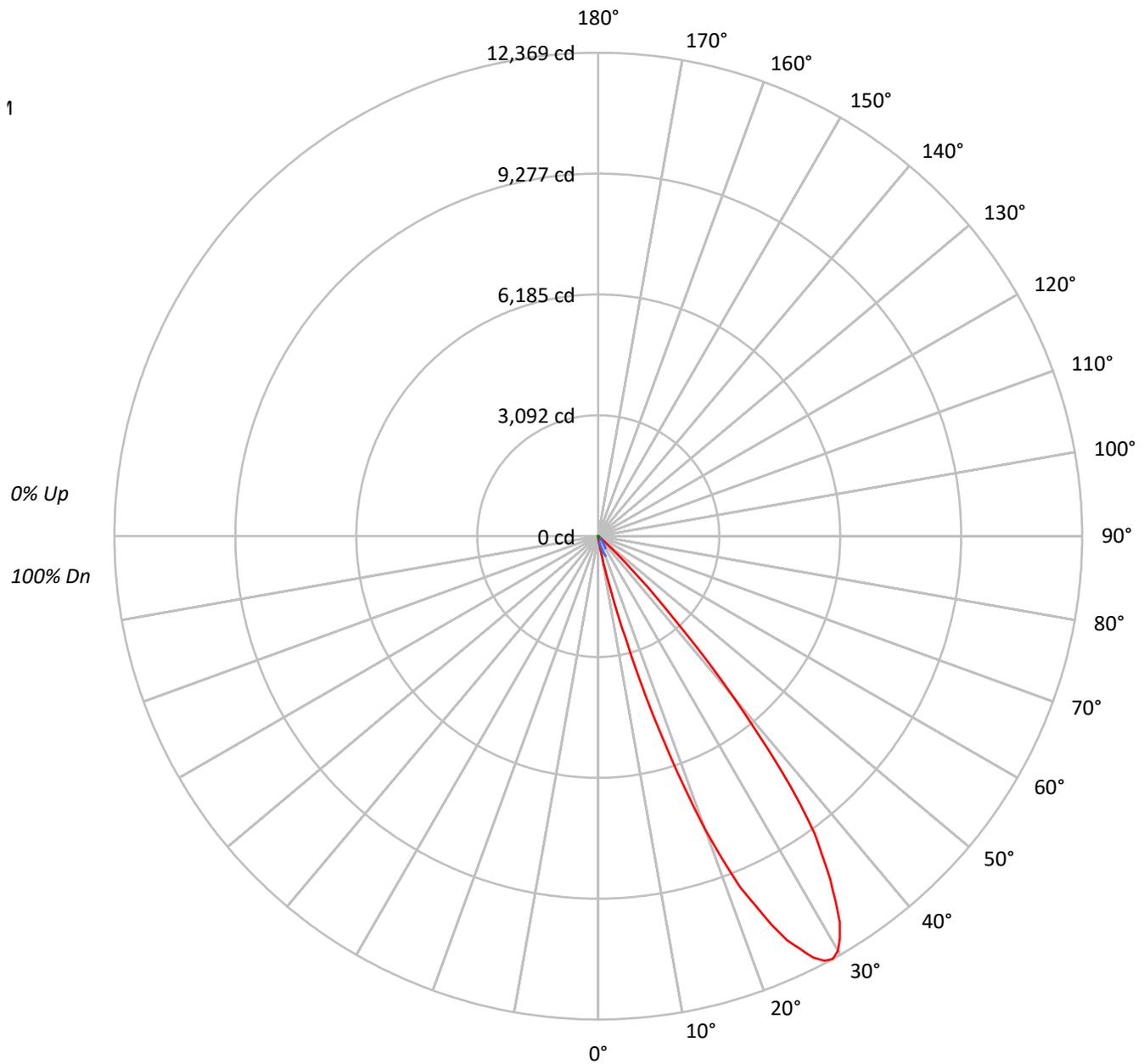
Test Method: LM-79-2019  
Report Number: P1315886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209735D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1735.0 lumens  
Efficiency: N/A  
Efficacy: 60.2 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19  
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	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	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	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

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

	0°	45°	90°	135°	180°
0°	10299	10299	10299	10299	10299
5°	23667	17686	9802	5982	5169
10°	74604	30831	7975	3305	2483
15°	483277	56966	5902	1123	285
20°	1458580	97503	4032	0	0
25°	2166171	98415	2394	0	0
30°	2435964	74813	935	0	0
35°	2101777	44677	652	0	0
40°	1210277	15220	0	0	0
45°	295194	6138	390	0	390
50°	35420	1688	429	429	1259
55°	4714	0	931	931	1892
60°	551	0	1619	1619	2721
65°	652	652	2567	2567	3831
70°	806	806	3172	3172	3978
75°	0	1065	4192	3127	4192
80°	0	1587	4661	3075	4661
85°	0	3162	9287	3162	3162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 297118 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.0	0.5
10°-20°	160.8	9.3
20°-30°	700.8	40.4
30°-40°	705.8	40.7
40°-50°	141.6	8.2
50°-60°	7.1	0.4
60°-70°	4.7	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°	869.6	50.1
0°-40°	1575.4	90.8
0°-60°	1724.1	99.4
0°-90°	1735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1735.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	137	102	57	35	30	21
15°	2710	320	33	6	2	1062
25°	11399	518	13	0	0	5140
35°	9997	212	3	0	0	5948
45°	1212	25	2	0	2	1320
55°	16	0	3	3	6	29
65°	2	2	6	6	9	2
75°	0	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°	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
2.5°	89.7	89.7	88.1	88.1	86.6	88.1	85.0	86.6	86.6	85.0	77.1
5°	136.9	140.1	138.5	138.5	136.9	138.5	135.4	132.2	129.1	129.1	102.3
7.5°	225.1	223.5	220.4	221.9	217.2	214.1	210.9	209.3	199.9	195.2	133.8
10°	426.6	436.0	428.1	426.6	398.2	396.7	377.8	351.0	327.4	314.8	176.3
12.5°	1174.2	1224.6	1145.9	1108.1	1086.1	1001.1	964.9	872.0	782.3	714.6	223.5
15°	2710.5	2834.9	2675.9	2686.9	2554.7	2312.3	2099.8	1917.2	1701.6	1484.3	319.5
17.5°	5310.9	5210.1	5123.6	4977.2	4708.0	4352.3	3894.2	3429.9	3028.5	2608.2	445.5
20°	7958.4	7868.7	7671.9	7352.4	7009.3	6482.0	5937.3	5240.0	4564.8	3932.0	532.0
21°	8869.8	8839.9	8517.2	8320.5	7791.6	7287.9	6659.8	5913.7	5153.5	4404.2	546.2
22°	9683.6	9504.2	9331.0	9039.8	8514.1	7966.3	7267.4	6482.0	5657.2	4824.5	547.8
23°	10247.1	10165.3	10001.6	9672.6	9150.0	8506.2	7769.5	6947.9	6079.0	5122.0	543.0
24°	10870.4	10766.5	10527.3	10143.2	9615.9	8980.0	8139.4	7324.1	6379.6	5372.3	530.5
25°	11399.3	11237.2	10953.9	10539.9	9963.8	9307.4	8462.1	7566.5	6589.0	5540.7	517.9
26°	11742.5	11654.3	11290.7	10840.5	10223.5	9546.7	8684.1	7752.2	6724.4	5617.8	497.4
27°	12099.8	11937.6	11580.3	11062.5	10393.5	9702.5	8810.0	7841.9	6771.6	5621.0	472.2
28°	12304.4	12128.1	11723.6	11178.9	10503.7	9789.1	8882.4	7870.3	6762.1	5572.2	442.3
29°	12368.9	12147.0	11751.9	11197.8	10530.4	9795.4	8871.4	7829.4	6678.7	5452.5	407.7
30°	12249.3	12022.6	11648.0	11108.1	10445.4	9716.6	8769.1	7694.0	6530.8	5281.0	376.2
31°	11988.0	11796.0	11433.9	10892.5	10256.6	9532.5	8537.7	7472.0	6278.9	5051.1	340.0
32°	11643.3	11454.4	11098.7	10609.1	9962.2	9231.8	8221.3	7125.8	5983.0	4708.0	303.8
33°	11125.4	11016.8	10697.3	10229.8	9582.9	8802.1	7796.3	6711.8	5561.1	4327.1	272.3
34°	10601.3	10464.3	10240.8	9729.2	9033.5	8254.4	7242.2	6140.4	5046.4	3900.5	242.4
35°	9996.8	9915.0	9564.0	9154.7	8455.8	7659.4	6653.5	5584.8	4446.7	3425.1	212.5
36°	9411.3	9285.4	8885.5	8452.7	7774.3	6913.3	5920.0	4915.8	3928.8	2979.7	181.0
37°	8561.3	8369.3	8084.4	7627.9	6834.6	6101.0	5194.4	4262.5	3291.4	2498.0	146.4
38°	7561.8	7472.0	7077.0	6617.3	5961.0	5265.2	4368.0	3577.8	2715.2	2085.6	111.8
39°	6382.8	6381.2	6003.5	5671.3	5029.1	4402.6	3593.6	2904.1	2241.5	1679.5	86.6
40°	5383.3	5197.5	4964.6	4547.4	4054.8	3522.7	2814.4	2272.9	1739.3	1353.7	67.7
42.5°	2822.3	2806.5	2669.6	2356.4	2080.9	1767.7	1405.6	1171.1	916.1	746.1	42.5
45°	1212.0	1219.9	1125.5	1078.2	971.2	840.5	709.9	591.8	506.8	410.8	25.2
47.5°	306.9	294.3	291.2	302.2	302.2	292.8	262.9	247.1	228.2	209.3	14.2
50°	132.2	129.1	125.9	125.9	118.1	113.3	105.5	96.0	88.1	78.7	6.3
52.5°	48.8	50.4	51.9	50.4	50.4	48.8	48.8	47.2	42.5	37.8	3.1
55°	15.7	15.7	15.7	17.3	17.3	18.9	18.9	18.9	18.9	17.3	0.0
57.5°	3.1	3.1	4.7	4.7	4.7	4.7	4.7	4.7	6.3	6.3	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
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	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	1.6	0.0	1.6	1.6	0.0	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	59.8	59.8	59.8	59.8	59.8	59.8
2.5°	69.3	61.4	51.9	44.1	42.5	40.9
5°	77.1	56.7	42.5	34.6	31.5	29.9
7.5°	83.4	51.9	34.6	25.2	22.0	20.5
10°	86.6	45.6	28.3	18.9	14.2	14.2
12.5°	88.1	39.4	20.5	12.6	7.9	7.9
15°	86.6	33.1	15.7	6.3	1.6	1.6
17.5°	78.7	26.8	9.4	1.6	0.0	0.0
20°	67.7	22.0	6.3	0.0	0.0	0.0
21°	64.5	18.9	4.7	0.0	0.0	0.0
22°	59.8	17.3	3.1	0.0	0.0	0.0
23°	55.1	15.7	3.1	0.0	0.0	0.0
24°	50.4	14.2	1.6	0.0	0.0	0.0
25°	47.2	12.6	1.6	0.0	0.0	0.0
26°	44.1	11.0	1.6	0.0	0.0	0.0
27°	39.4	9.4	0.0	0.0	0.0	0.0
28°	36.2	7.9	0.0	0.0	0.0	0.0
29°	31.5	6.3	0.0	0.0	0.0	0.0
30°	26.8	4.7	0.0	0.0	0.0	0.0
31°	22.0	4.7	0.0	0.0	0.0	0.0
32°	18.9	3.1	0.0	0.0	0.0	0.0
33°	15.7	3.1	0.0	0.0	0.0	0.0
34°	14.2	3.1	0.0	0.0	0.0	0.0
35°	12.6	3.1	0.0	0.0	0.0	0.0
36°	9.4	1.6	0.0	0.0	0.0	0.0
37°	7.9	1.6	0.0	0.0	0.0	0.0
38°	6.3	1.6	0.0	0.0	0.0	0.0
39°	4.7	0.0	0.0	0.0	0.0	0.0
40°	4.7	0.0	0.0	0.0	0.0	0.0
42.5°	1.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.6	0.0	0.0	1.6	1.6
47.5°	0.0	1.6	0.0	0.0	1.6	3.1
50°	0.0	1.6	1.6	1.6	3.1	4.7
52.5°	0.0	3.1	1.6	1.6	4.7	4.7
55°	1.6	3.1	1.6	3.1	6.3	6.3
57.5°	1.6	3.1	3.1	4.7	6.3	7.9
60°	3.1	4.7	4.7	4.7	7.9	7.9
62.5°	3.1	4.7	6.3	6.3	7.9	9.4
65°	3.1	6.3	6.3	6.3	7.9	9.4
67.5°	4.7	6.3	6.3	6.3	7.9	9.4
70°	4.7	6.3	6.3	6.3	7.9	7.9
72.5°	4.7	6.3	4.7	6.3	6.3	7.9
75°	4.7	6.3	4.7	4.7	6.3	6.3
77.5°	3.1	4.7	4.7	3.1	4.7	4.7
80°	3.1	4.7	3.1	3.1	4.7	4.7



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.1	4.7	3.1	1.6	3.1	3.1
85°	3.1	4.7	3.1	1.6	1.6	1.6
87.5°	3.1	4.7	3.1	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)