

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: P1309493

Luminaire Tested: LDSQA3D20R159030D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

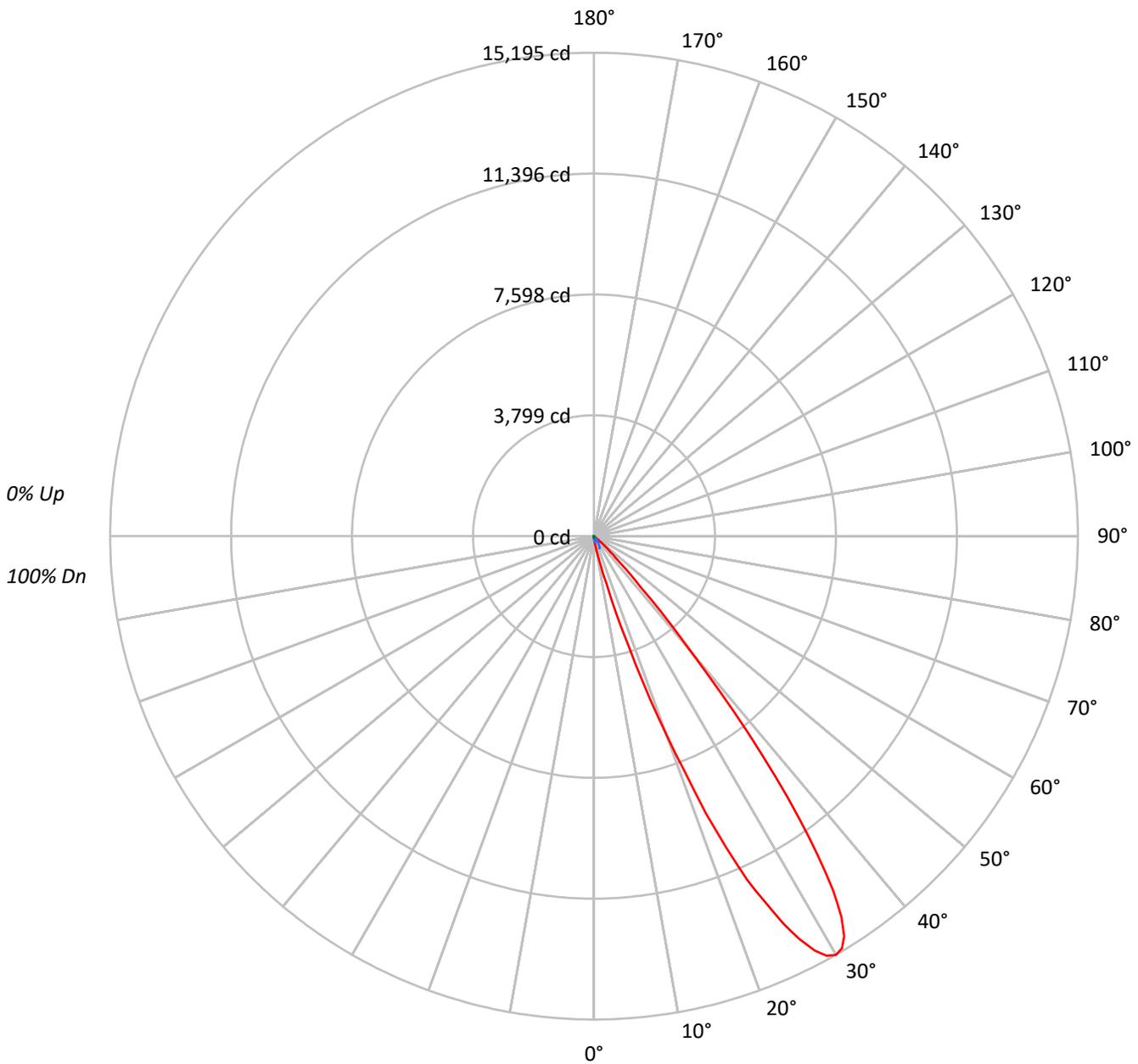
Test Method: LM-79-2019  
Report Number: P1309493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159030D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1607.0 lumens  
Efficiency: N/A  
Efficacy: 55.8 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 (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	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°	9903	9903	9903	9903	9903
5°	28629	21610	8471	3509	2334
10°	74464	32213	5614	0	0
15°	297686	52723	3013	0	0
20°	1216216	77745	935	0	0
25°	2404198	77075	0	0	0
30°	3021782	60833	0	0	0
35°	2578277	37297	0	0	0
40°	1061468	11781	0	0	0
45°	229652	4944	0	0	0
50°	29419	0	0	0	0
55°	2522	0	510	0	0
60°	0	0	1171	0	0
65°	0	0	1386	0	0
70°	0	856	2568	0	0
75°	0	1131	3394	0	0
80°	0	1686	5058	0	0
85°	0	3359	10078	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 240369 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.7	0.5
10°-20°	112.6	7.0
20°-30°	656.4	40.8
30°-40°	703.8	43.8
40°-50°	118.8	7.4
50°-60°	3.6	0.2
60°-70°	1.1	0.1
70°-80°	1.6	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°	776.8	48.3
0°-40°	1480.6	92.1
0°-60°	1603.0	99.7
0°-90°	1607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	166	125	49	20	14	23
15°	1670	296	17	0	0	772
25°	12652	406	0	0	0	5724
35°	12263	177	0	0	0	7048
45°	943	20	0	0	0	1114
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°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
2.5°	104.8	106.5	108.2	108.2	108.2	108.2	106.5	106.5	106.5	106.5	104.8
5°	165.6	165.6	165.6	165.6	165.6	165.6	163.9	163.9	163.9	163.9	163.9
7.5°	236.6	233.2	234.9	229.8	233.2	231.5	229.8	233.2	233.2	224.7	224.7
10°	425.8	424.2	407.3	410.6	414.0	412.3	412.3	402.2	400.5	393.7	387.0
12.5°	821.3	839.9	853.4	853.4	821.3	833.1	811.1	816.2	819.6	809.4	774.0
15°	1669.6	1700.0	1667.9	1698.3	1686.5	1642.5	1593.5	1527.6	1553.0	1507.3	1492.1
17.5°	3656.8	3726.1	3697.4	3557.1	3602.8	3494.6	3427.0	3401.7	3330.7	3119.5	3031.6
20°	6636.0	6720.5	6641.1	6477.2	6529.6	6325.1	6272.7	6223.7	5909.4	5794.5	5426.1
21°	7889.9	7959.2	7989.6	7818.9	7714.2	7551.9	7416.7	7372.8	7181.9	6960.5	6582.0
22°	9404.0	9322.9	9140.4	9164.0	9008.6	8875.1	8687.5	8510.1	8297.2	7987.9	7675.3
23°	10657.9	10563.2	10477.1	10372.3	10205.0	10110.4	9841.7	9647.3	9370.2	9039.0	8738.2
24°	11825.6	11680.2	11626.2	11440.3	11393.0	11180.0	10962.0	10708.6	10374.0	10020.8	9687.9
25°	12651.9	12673.9	12626.5	12604.6	12362.9	12144.9	11928.6	11538.3	11252.7	10940.1	10428.0
26°	13537.4	13547.5	13523.8	13361.6	13143.6	12930.7	12651.9	12312.2	11898.2	11551.8	11088.8
27°	14215.0	14174.4	14140.6	13948.0	13768.9	13500.2	13246.7	12844.5	12440.7	12028.3	11491.0
28°	14755.7	14679.7	14637.5	14471.9	14262.3	13932.8	13621.9	13246.7	12842.8	12400.1	11818.8
29°	15081.9	15000.8	14953.5	14771.0	14529.3	14240.3	13926.0	13513.7	13079.4	12586.0	12001.3
30°	15195.1	15147.8	15073.4	14884.2	14634.1	14333.3	14010.5	13562.7	13108.1	12602.9	11984.4
31°	15120.8	15059.9	14988.9	14784.5	14514.1	14226.8	13851.7	13381.9	12903.7	12422.1	11766.4
32°	14825.0	14787.9	14701.7	14427.9	14208.2	13836.5	13466.4	13027.0	12504.9	11987.8	11394.6
33°	14270.8	14209.9	14135.6	13885.5	13605.0	13248.4	12880.0	12430.5	11911.7	11365.9	10713.6
34°	13425.8	13348.1	13255.2	13087.9	12729.6	12420.4	11994.5	11469.0	11039.8	10515.9	9926.2
35°	12263.2	12150.0	12038.5	11911.7	11509.6	11224.0	10936.7	10478.7	10064.7	9571.3	8903.8
36°	10958.7	10914.7	10823.5	10488.9	10358.8	9970.1	9738.6	9213.0	8878.5	8395.2	7844.3
37°	9483.4	9224.9	9356.7	9169.1	8777.1	8655.4	8380.0	7928.8	7567.1	7056.8	6658.0
38°	7901.7	7732.7	7825.7	7636.4	7431.9	7151.4	6941.9	6612.4	6206.8	5806.3	5427.8
39°	6262.6	6125.7	6227.1	6098.7	5787.7	5671.1	5485.2	5233.5	4907.3	4594.7	4236.4
40°	4721.4	4545.7	4680.9	4498.4	4356.4	4165.5	4070.8	3839.3	3636.6	3449.0	3220.8
42.5°	2156.2	2137.7	2107.2	2041.3	2026.1	2027.8	1911.2	1835.2	1732.1	1612.1	1539.5
45°	942.9	966.6	986.9	949.7	948.0	927.7	921.0	870.3	850.0	811.1	763.8
47.5°	464.7	473.2	468.1	478.2	469.8	456.3	452.9	446.1	425.8	424.2	402.2
50°	109.8	108.2	108.2	109.8	108.2	108.2	106.5	103.1	101.4	103.1	98.0
52.5°	35.5	37.2	35.5	33.8	35.5	37.2	35.5	35.5	35.5	35.5	35.5
55°	8.4	8.4	8.4	8.4	8.4	8.4	6.8	6.8	8.4	8.4	8.4
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°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
2.5°	103.1	87.9	72.7	57.5	42.2	33.8	32.1	30.4
5°	155.5	125.0	82.8	49.0	28.7	20.3	15.2	13.5
7.5°	209.5	155.5	91.3	40.6	20.3	8.4	3.4	1.7
10°	300.8	184.2	94.6	32.1	10.1	0.0	0.0	0.0
12.5°	589.8	211.2	92.9	25.3	1.7	0.0	0.0	0.0
15°	980.1	295.7	86.2	16.9	0.0	0.0	0.0	0.0
17.5°	1605.4	381.9	74.4	11.8	0.0	0.0	0.0	0.0
20°	2489.1	424.2	57.5	5.1	0.0	0.0	0.0	0.0
21°	2918.4	427.5	50.7	3.4	0.0	0.0	0.0	0.0
22°	3290.1	427.5	43.9	1.7	0.0	0.0	0.0	0.0
23°	3634.9	422.5	38.9	0.0	0.0	0.0	0.0	0.0
24°	3918.8	415.7	35.5	0.0	0.0	0.0	0.0	0.0
25°	4131.7	405.6	32.1	0.0	0.0	0.0	0.0	0.0
26°	4229.7	392.0	27.0	0.0	0.0	0.0	0.0	0.0
27°	4278.7	373.5	23.7	0.0	0.0	0.0	0.0	0.0
28°	4244.9	353.2	20.3	0.0	0.0	0.0	0.0	0.0
29°	4160.4	331.2	15.2	0.0	0.0	0.0	0.0	0.0
30°	4050.6	305.9	11.8	0.0	0.0	0.0	0.0	0.0
31°	3890.0	280.5	8.4	0.0	0.0	0.0	0.0	0.0
32°	3670.3	255.2	6.8	0.0	0.0	0.0	0.0	0.0
33°	3376.3	228.1	3.4	0.0	0.0	0.0	0.0	0.0
34°	3013.0	201.1	1.7	0.0	0.0	0.0	0.0	0.0
35°	2605.7	177.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	2255.9	152.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	1904.5	121.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	1595.2	96.3	0.0	0.0	0.0	0.0	0.0	0.0
39°	1319.8	77.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	1093.3	52.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	605.0	35.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	366.7	20.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	212.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	81.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.8	0.0	0.0	1.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.7	3.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.7	3.4	1.7	0.0	0.0	0.0
65°	0.0	0.0	3.4	3.4	1.7	0.0	0.0	0.0
67.5°	0.0	0.0	3.4	5.1	1.7	0.0	0.0	0.0
70°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
72.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
75°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
77.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
80°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
85°	0.0	1.7	3.4	5.1	1.7	0.0	0.0	0.0
87.5°	0.0	1.7	3.4	5.1	1.7	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)