

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: P1311745

Luminaire Tested: LDSQA3D20R209040D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

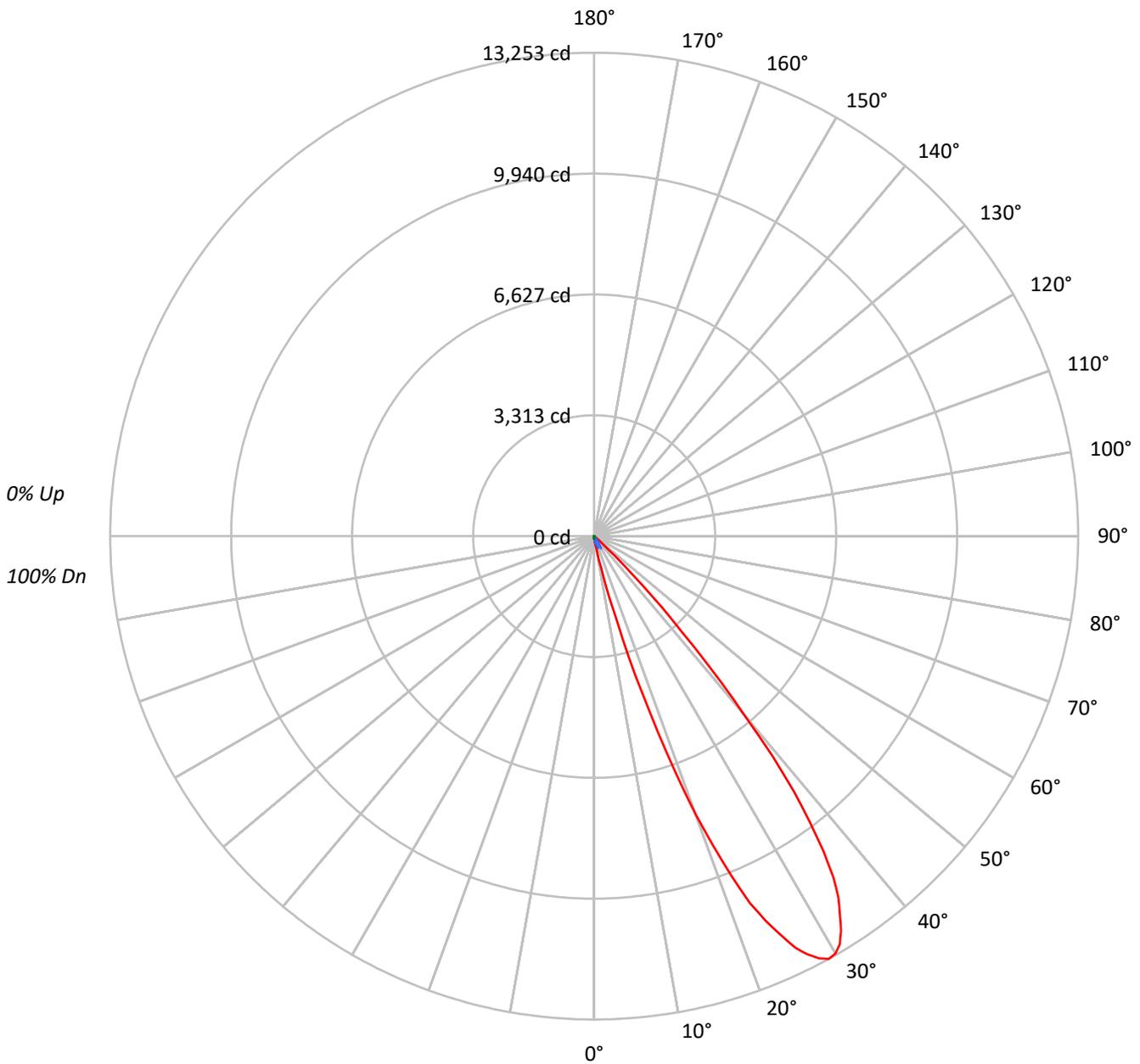
Test Method: LM-79-2019  
Report Number: P1311745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209040D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1829.0 lumens  
Efficiency: N/A  
Efficacy: 63.5 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): 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	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°	11281	11281	11281	11281	11281
5°	24532	17288	10373	4720	3458
10°	61068	30534	7310	962	0
15°	429734	41847	4208	0	0
20°	1485210	70341	1668	0	0
25°	2289308	89864	684	0	0
30°	2627671	69444	0	0	0
35°	2399800	26386	0	0	0
40°	1438695	12275	0	0	0
45°	353551	5748	0	0	0
50°	38984	1474	0	0	0
55°	5465	0	540	0	0
60°	0	0	1240	0	0
65°	0	0	1467	0	0
70°	0	906	2769	0	0
75°	0	1198	3660	0	0
80°	0	1785	5455	0	0
85°	0	3557	10868	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 1°  
 Vertical Angle: 45°  
 Luminance: 377030 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.4	0.4
10°-20°	142.9	7.8
20°-30°	722.5	39.5
30°-40°	781.7	42.7
40°-50°	165.1	9.0
50°-60°	5.0	0.3
60°-70°	1.2	0.1
70°-80°	1.7	0.1
80°-90°	1.5	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°	872.8	47.7
0°-40°	1654.5	90.5
0°-60°	1824.6	99.8
0°-90°	1829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1829.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	142	100	60	27	20	20
15°	2410	235	24	0	0	1005
25°	12047	473	4	0	0	5445
35°	11414	126	0	0	0	6731
45°	1452	24	0	0	0	1597
55°	18	0	2	0	0	32
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	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°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
2.5°	89.1	87.3	89.1	87.3	89.1	89.1	89.1	87.3	87.3	87.3	87.3
5°	141.9	141.9	140.1	141.9	141.9	141.9	141.9	140.1	140.1	138.2	138.2
7.5°	223.7	223.7	221.9	221.9	223.7	225.6	218.3	221.9	221.9	221.9	220.1
10°	349.2	356.5	349.2	358.3	351.1	345.6	354.7	345.6	345.6	343.8	338.3
12.5°	880.4	860.4	847.7	816.7	847.7	824.0	829.5	824.0	805.8	782.2	767.6
15°	2410.2	2410.2	2339.2	2433.8	2364.7	2390.2	2259.2	2261.0	2193.7	2121.0	2080.9
17.5°	5038.6	5084.1	5036.8	5007.7	4945.9	4856.7	4820.4	4727.6	4605.7	4463.8	4447.5
20°	8103.7	7912.7	8001.8	7919.9	7869.0	7759.9	7638.0	7561.6	7454.3	7274.2	7008.6
21°	9067.7	9060.5	9058.6	9056.8	8982.2	8804.0	8693.0	8540.2	8389.3	8203.7	7981.8
22°	10039.1	10073.6	10088.2	9982.7	9829.9	9749.9	9673.5	9464.3	9226.0	9129.6	8865.8
23°	10930.4	10897.7	10803.1	10754.0	10635.7	10612.1	10384.7	10251.9	10019.1	9913.6	9600.7
24°	11537.9	11521.6	11477.9	11405.2	11310.6	11165.1	11028.6	10819.4	10628.4	10455.6	10164.6
25°	12047.3	12061.8	11981.8	11932.7	11830.8	11667.1	11499.7	11270.6	11092.3	10890.4	10553.9
26°	12551.1	12449.3	12385.6	12312.8	12201.9	12014.5	11852.6	11647.1	11430.6	11205.1	10875.8
27°	12862.2	12771.2	12674.8	12603.9	12476.6	12298.3	12125.5	11898.1	11656.2	11428.8	11090.5
28°	13107.7	13007.7	12913.1	12827.6	12682.1	12491.1	12283.7	12052.7	11801.7	11567.1	11221.4
29°	13253.3	13135.0	13033.2	12936.8	12804.0	12596.6	12387.4	12140.0	11898.1	11652.5	11299.7
30°	13213.3	13111.4	13013.2	12914.9	12780.3	12585.7	12378.3	12141.9	11898.1	11656.2	11297.8
31°	13056.8	12931.3	12860.4	12762.1	12645.7	12447.4	12269.2	12010.9	11790.8	11528.9	11170.5
32°	12756.7	12676.6	12582.1	12505.7	12392.9	12181.9	12007.3	11796.2	11536.1	11321.5	10945.0
33°	12349.2	12274.6	12227.4	12138.2	12029.1	11883.6	11674.4	11481.6	11188.7	10968.6	10592.1
34°	11960.0	11865.4	11747.1	11721.7	11627.1	11439.7	11250.5	11054.1	10792.2	10512.0	10131.9
35°	11414.3	11316.0	11206.9	11216.0	11103.2	10884.9	10692.1	10472.0	10222.8	9893.6	9533.4
36°	10684.8	10619.4	10603.0	10559.3	10430.2	10170.1	9986.3	9709.8	9500.7	9098.7	8789.4
37°	9795.3	9819.0	9700.8	9644.4	9493.4	9311.5	9207.8	8853.1	8609.3	8307.4	7889.0
38°	8896.8	8862.2	8722.1	8756.7	8549.3	8360.1	8067.3	7856.3	7583.4	7303.3	6968.6
39°	7774.4	7688.9	7521.6	7528.9	7372.4	7159.6	6875.8	6626.6	6462.9	6193.7	5873.6
40°	6399.3	6362.9	6304.7	6208.3	6002.7	5909.9	5657.1	5387.9	5249.6	4876.8	4720.3
42.5°	3550.7	3501.6	3403.4	3368.8	3259.7	3150.5	3003.2	2823.1	2735.8	2624.8	2377.4
45°	1451.6	1548.0	1524.3	1497.0	1413.4	1418.8	1313.3	1326.1	1229.6	1164.2	1118.7
47.5°	320.1	347.4	349.2	336.5	349.2	338.3	332.9	323.8	325.6	331.1	318.3
50°	145.5	143.7	147.3	145.5	143.7	141.9	140.1	134.6	138.2	134.6	131.0
52.5°	56.4	58.2	58.2	54.6	56.4	56.4	56.4	54.6	54.6	54.6	54.6
55°	18.2	18.2	18.2	16.4	16.4	18.2	18.2	18.2	18.2	18.2	16.4
57.5°	1.8	3.6	1.8	3.6	1.8	1.8	1.8	1.8	1.8	3.6	3.6
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



TEST NUMBER: P1311745

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**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
2.5°	83.7	76.4	70.9	65.5	54.6	45.5	41.8	41.8
5°	129.1	100.0	74.6	60.0	41.8	27.3	21.8	20.0
7.5°	194.6	134.6	78.2	50.9	27.3	14.6	9.1	7.3
10°	281.9	174.6	81.9	41.8	16.4	5.5	0.0	0.0
12.5°	493.0	209.2	81.9	32.7	7.3	0.0	0.0	0.0
15°	1129.6	234.7	78.2	23.6	1.8	0.0	0.0	0.0
17.5°	2346.5	294.7	69.1	16.4	0.0	0.0	0.0	0.0
20°	3747.1	383.8	54.6	9.1	0.0	0.0	0.0	0.0
21°	4323.8	414.7	49.1	7.3	0.0	0.0	0.0	0.0
22°	4738.5	443.8	43.7	5.5	0.0	0.0	0.0	0.0
23°	5195.1	462.0	38.2	3.6	0.0	0.0	0.0	0.0
24°	5531.6	472.9	32.7	3.6	0.0	0.0	0.0	0.0
25°	5740.8	472.9	29.1	3.6	0.0	0.0	0.0	0.0
26°	5864.5	462.0	25.5	1.8	0.0	0.0	0.0	0.0
27°	5893.6	443.8	21.8	1.8	0.0	0.0	0.0	0.0
28°	5857.2	420.2	18.2	0.0	0.0	0.0	0.0	0.0
29°	5742.6	385.6	16.4	0.0	0.0	0.0	0.0	0.0
30°	5618.9	349.2	12.7	0.0	0.0	0.0	0.0	0.0
31°	5407.9	300.1	10.9	0.0	0.0	0.0	0.0	0.0
32°	5164.2	249.2	9.1	0.0	0.0	0.0	0.0	0.0
33°	4838.6	196.5	7.3	0.0	0.0	0.0	0.0	0.0
34°	4358.3	154.6	7.3	0.0	0.0	0.0	0.0	0.0
35°	3927.2	125.5	5.5	0.0	0.0	0.0	0.0	0.0
36°	3363.3	100.0	5.5	0.0	0.0	0.0	0.0	0.0
37°	2881.3	83.7	5.5	0.0	0.0	0.0	0.0	0.0
38°	2412.0	70.9	3.6	0.0	0.0	0.0	0.0	0.0
39°	1957.2	61.8	3.6	0.0	0.0	0.0	0.0	0.0
40°	1560.7	54.6	3.6	0.0	0.0	0.0	0.0	0.0
42.5°	842.2	36.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	465.7	23.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	205.5	12.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	69.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	16.4	0.0	0.0	1.8	0.0	0.0	0.0	0.0
57.5°	3.6	0.0	0.0	1.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.8	3.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.8	3.6	1.8	0.0	0.0	0.0
65°	0.0	0.0	3.6	3.6	1.8	0.0	0.0	0.0
67.5°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
70°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
72.5°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
75°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
77.5°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
80°	0.0	1.8	3.6	5.5	1.8	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	1.8	3.6	5.5	1.8	0.0	0.0	0.0
85°	0.0	1.8	3.6	5.5	1.8	0.0	0.0	0.0
87.5°	0.0	1.8	3.6	5.5	1.8	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)