

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: P1311599

Luminaire Tested: LDSQA3D17R209040DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

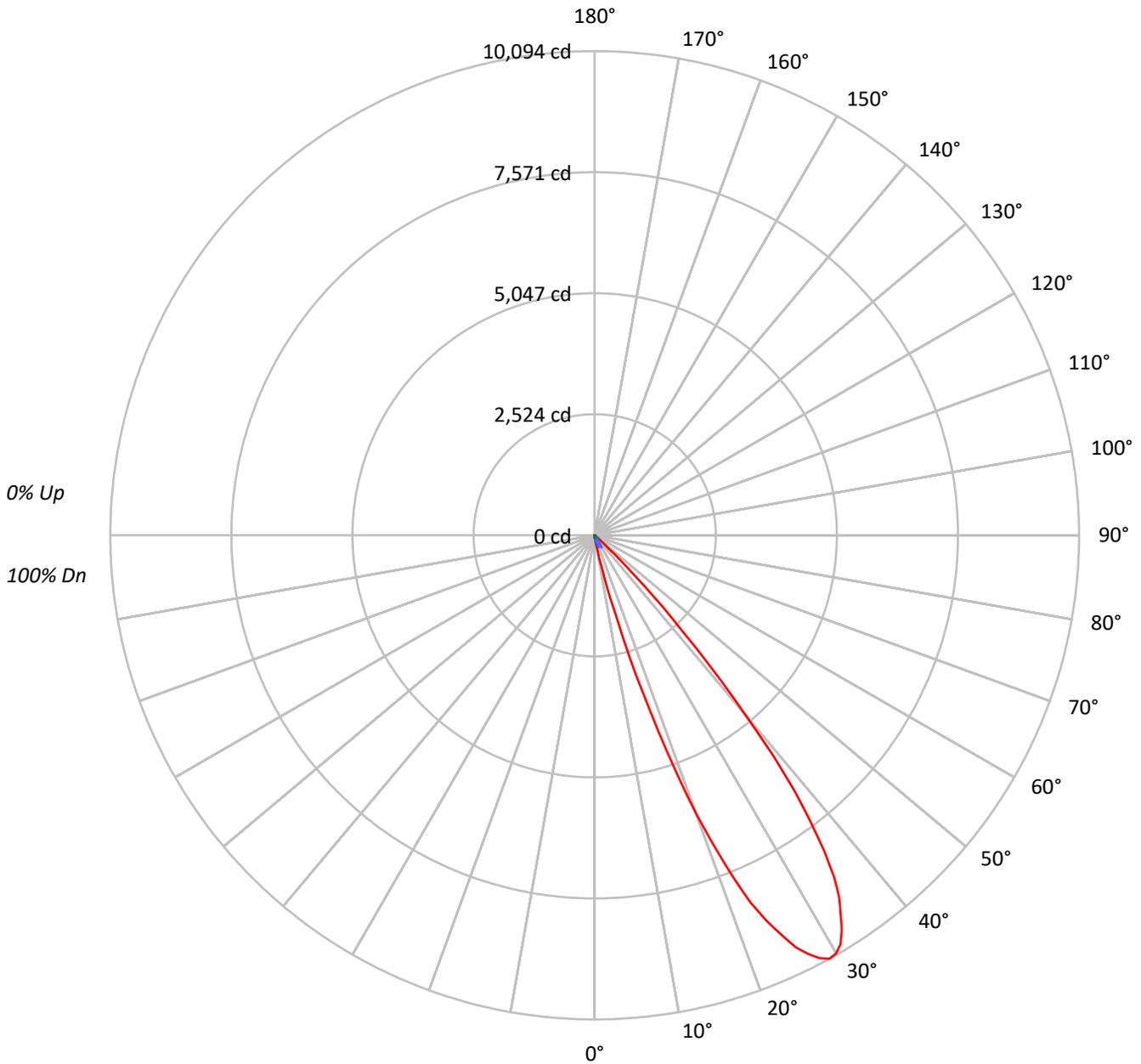
Test Method: LM-79-2019  
Report Number: P1311599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209040DE010 3LSQCA30R 1MB  
Description: 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: 1393.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 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): 21.2  
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				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	49
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°	8594	8594	8594	8594	8594
5°	18688	13173	7901	3596	2628
10°	46518	23259	5579	734	0
15°	327284	31862	3209	0	0
20°	1131158	53571	1265	0	0
25°	1743571	68448	532	0	0
30°	2001284	52898	0	0	0
35°	1827723	20099	0	0	0
40°	1095731	9353	0	0	0
45°	269255	4384	0	0	0
50°	29687	1125	0	0	0
55°	4174	0	420	0	0
60°	0	0	964	0	0
65°	0	0	1141	0	0
70°	0	705	2115	0	0
75°	0	932	2795	0	0
80°	0	1389	4166	0	0
85°	0	2766	8299	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 1°  
 Vertical Angle: 45°  
 Luminance: 287157 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.7	0.4
10°-20°	108.8	7.8
20°-30°	550.3	39.5
30°-40°	595.4	42.7
40°-50°	125.7	9.0
50°-60°	3.8	0.3
60°-70°	0.9	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	664.7	47.7
0°-40°	1260.1	90.5
0°-60°	1389.7	99.8
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	108	76	46	21	15	15
15°	1836	179	18	0	0	765
25°	9175	360	3	0	0	4147
35°	8693	96	0	0	0	5126
45°	1106	18	0	0	0	1216
55°	14	0	1	0	0	25
65°	0	0	3	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	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°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
2.5°	67.9	66.5	67.9	66.5	67.9	67.9	67.9	66.5	66.5	66.5	66.5
5°	108.1	108.1	106.7	108.1	108.1	108.1	108.1	106.7	106.7	105.3	105.3
7.5°	170.4	170.4	169.0	169.0	170.4	171.8	166.2	169.0	169.0	169.0	167.6
10°	266.0	271.5	266.0	272.9	267.4	263.2	270.2	263.2	263.2	261.8	257.7
12.5°	670.5	655.3	645.6	622.0	645.6	627.6	631.7	627.6	613.7	595.7	584.6
15°	1835.6	1835.6	1781.6	1853.6	1801.0	1820.4	1720.7	1722.0	1670.8	1615.4	1584.9
17.5°	3837.5	3872.2	3836.1	3814.0	3766.9	3699.0	3671.3	3600.6	3507.8	3399.7	3387.3
20°	6171.9	6026.4	6094.3	6032.0	5993.2	5910.1	5817.2	5759.1	5677.3	5540.2	5337.9
21°	6906.2	6900.6	6899.2	6897.8	6841.0	6705.3	6620.8	6504.4	6389.4	6248.1	6079.1
22°	7646.0	7672.3	7683.4	7603.0	7486.6	7425.7	7367.5	7208.2	7026.7	6953.3	6752.4
23°	8324.8	8299.9	8227.8	8190.4	8100.4	8082.4	7909.2	7808.0	7630.7	7550.4	7312.1
24°	8787.5	8775.0	8741.8	8686.4	8614.3	8503.5	8399.6	8240.3	8094.8	7963.2	7741.5
25°	9175.4	9186.5	9125.5	9088.1	9010.6	8885.9	8758.4	8583.9	8448.1	8294.3	8038.0
26°	9559.2	9481.6	9433.1	9377.7	9293.2	9150.5	9027.2	8870.6	8705.8	8534.0	8283.2
27°	9796.1	9726.8	9653.4	9599.3	9502.4	9366.6	9235.0	9061.8	8877.6	8704.4	8446.7
28°	9983.1	9906.9	9834.9	9769.8	9658.9	9513.5	9355.5	9179.6	8988.4	8809.7	8546.5
29°	10093.9	10003.9	9926.3	9852.9	9751.7	9593.8	9434.5	9246.1	9061.8	8874.8	8606.0
30°	10063.5	9985.9	9911.1	9836.3	9733.7	9585.5	9427.6	9247.5	9061.8	8877.6	8604.6
31°	9944.3	9848.7	9794.7	9719.9	9631.2	9480.2	9344.4	9147.7	8980.1	8780.6	8507.7
32°	9715.7	9654.8	9582.7	9524.5	9438.6	9277.9	9144.9	8984.2	8786.1	8622.7	8335.9
33°	9405.4	9348.6	9312.6	9244.7	9161.6	9050.7	8891.4	8744.6	8521.5	8353.9	8067.1
34°	9108.9	9036.9	8946.8	8927.4	8855.4	8712.7	8568.6	8419.0	8219.5	8006.2	7716.6
35°	8693.3	8618.5	8535.4	8542.3	8456.4	8290.2	8143.3	7975.7	7785.9	7535.1	7260.8
36°	8137.8	8087.9	8075.4	8042.2	7943.8	7745.7	7605.8	7395.2	7235.9	6929.7	6694.2
37°	7460.3	7478.3	7388.3	7345.3	7230.3	7091.8	7012.8	6742.7	6557.0	6327.1	6008.4
38°	6775.9	6749.6	6642.9	6669.3	6511.3	6367.2	6144.2	5983.5	5775.7	5562.3	5307.4
39°	5921.1	5856.0	5728.6	5734.1	5615.0	5452.9	5236.8	5047.0	4922.3	4717.2	4473.4
40°	4873.8	4846.1	4801.8	4728.3	4571.8	4501.1	4308.6	4103.5	3998.2	3714.2	3595.1
42.5°	2704.3	2666.9	2592.1	2565.7	2482.6	2399.5	2287.3	2150.1	2083.6	1999.1	1810.7
45°	1105.5	1179.0	1161.0	1140.2	1076.4	1080.6	1000.2	1009.9	936.5	886.6	852.0
47.5°	243.8	264.6	266.0	256.3	266.0	257.7	253.5	246.6	248.0	252.1	242.4
50°	110.8	109.4	112.2	110.8	109.4	108.1	106.7	102.5	105.3	102.5	99.7
52.5°	42.9	44.3	44.3	41.6	42.9	42.9	42.9	41.6	41.6	41.6	41.6
55°	13.9	13.9	13.9	12.5	12.5	13.9	13.9	13.9	13.9	13.9	12.5
57.5°	1.4	2.8	1.4	2.8	1.4	1.4	1.4	1.4	1.4	2.8	2.8
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°	49.9	49.9	49.9	49.9	49.9	49.9	49.9	49.9
2.5°	63.7	58.2	54.0	49.9	41.6	34.6	31.9	31.9
5°	98.4	76.2	56.8	45.7	31.9	20.8	16.6	15.2
7.5°	148.2	102.5	59.6	38.8	20.8	11.1	6.9	5.5
10°	214.7	133.0	62.3	31.9	12.5	4.2	0.0	0.0
12.5°	375.4	159.3	62.3	24.9	5.5	0.0	0.0	0.0
15°	860.3	178.7	59.6	18.0	1.4	0.0	0.0	0.0
17.5°	1787.1	224.4	52.6	12.5	0.0	0.0	0.0	0.0
20°	2853.9	292.3	41.6	6.9	0.0	0.0	0.0	0.0
21°	3293.1	315.9	37.4	5.5	0.0	0.0	0.0	0.0
22°	3608.9	338.0	33.2	4.2	0.0	0.0	0.0	0.0
23°	3956.7	351.9	29.1	2.8	0.0	0.0	0.0	0.0
24°	4213.0	360.2	24.9	2.8	0.0	0.0	0.0	0.0
25°	4372.3	360.2	22.2	2.8	0.0	0.0	0.0	0.0
26°	4466.5	351.9	19.4	1.4	0.0	0.0	0.0	0.0
27°	4488.7	338.0	16.6	1.4	0.0	0.0	0.0	0.0
28°	4460.9	320.0	13.9	0.0	0.0	0.0	0.0	0.0
29°	4373.7	293.7	12.5	0.0	0.0	0.0	0.0	0.0
30°	4279.5	266.0	9.7	0.0	0.0	0.0	0.0	0.0
31°	4118.8	228.6	8.3	0.0	0.0	0.0	0.0	0.0
32°	3933.1	189.8	6.9	0.0	0.0	0.0	0.0	0.0
33°	3685.1	149.6	5.5	0.0	0.0	0.0	0.0	0.0
34°	3319.4	117.8	5.5	0.0	0.0	0.0	0.0	0.0
35°	2991.1	95.6	4.2	0.0	0.0	0.0	0.0	0.0
36°	2561.6	76.2	4.2	0.0	0.0	0.0	0.0	0.0
37°	2194.5	63.7	4.2	0.0	0.0	0.0	0.0	0.0
38°	1837.0	54.0	2.8	0.0	0.0	0.0	0.0	0.0
39°	1490.7	47.1	2.8	0.0	0.0	0.0	0.0	0.0
40°	1188.7	41.6	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	641.4	27.7	0.0	0.0	0.0	0.0	0.0	0.0
45°	354.7	18.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	156.5	9.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	52.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	26.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12.5	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	2.8	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	1.4	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.2	1.4	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	1.4	2.8	4.2	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.2	1.4	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)