

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: P1317989

Luminaire Tested: LDSQA3D02R659830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

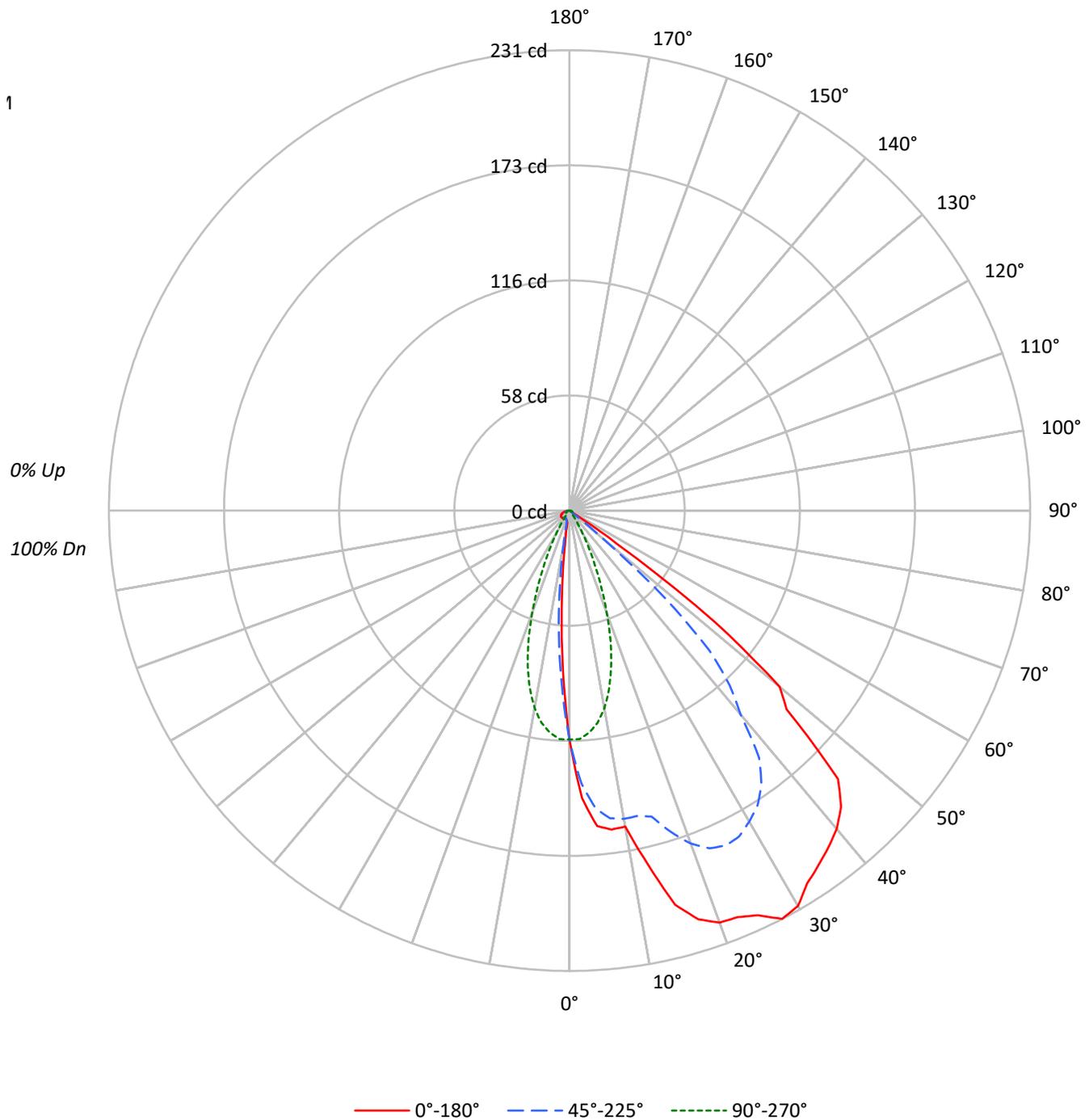
Test Method: LM-79-2019  
Report Number: P1317989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R659830DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 172.0 lumens  
Efficiency: N/A  
Efficacy: 47.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 3.6  
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





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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	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	19771	19771	19771	19771	19771
5°	27471	25932	19345	10632	7486
10°	28156	27474	17593	2973	1102
15°	36498	28332	14406	963	927
20°	40321	32586	10025	843	880
25°	42566	35231	5682	817	874
30°	45560	35836	2565	815	915
35°	45728	35279	820	862	1009
40°	46853	29969	562	922	1124
45°	46398	24161	560	999	1218
50°	36840	5707	563	1099	1393
55°	8738	330	601	1231	1561
60°	310	379	689	1309	1653
65°	367	367	652	1386	1834
70°	252	352	655	1360	1913
75°	266	333	599	1397	1930
80°	198	397	694	1389	1984
85°	395	790	790	1383	1778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 46496 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.6	5.6
10°-20°	25.2	14.7
20°-30°	39.6	23.0
30°-40°	45.3	26.3
40°-50°	36.4	21.2
50°-60°	11.8	6.9
60°-70°	2.1	1.2
70°-80°	1.4	0.8
80°-90°	0.5	0.3
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°	74.4	43.3
0°-40°	119.7	69.6
0°-60°	168.0	97.7
0°-90°	172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	172.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	115	115	115	115	115	
5°	159	150	112	62	43	15
15°	205	159	81	5	5	57
25°	224	185	30	4	5	104
35°	218	168	4	4	5	137
45°	190	99	2	4	5	137
55°	29	1	2	4	5	42
65°	1	1	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8
2.5°	144.4	143.9	144.6	143.4	143.2	141.9	141.2	140.8	139.2	137.1	135.1
5°	158.9	156.8	157.3	157.1	156.2	155.7	155.0	154.1	151.9	150.0	147.5
7.5°	161.4	159.6	160.0	160.2	159.6	159.4	159.3	158.9	157.5	155.7	153.5
10°	161.0	159.3	159.1	158.5	158.0	158.2	158.2	158.2	157.8	157.1	156.4
12.5°	181.8	179.3	178.7	175.0	171.6	165.7	161.9	158.4	156.8	156.9	156.4
15°	204.7	204.5	202.7	199.1	193.4	188.0	179.5	173.0	164.8	158.9	156.4
17.5°	215.0	214.8	213.2	210.2	206.1	201.1	194.8	187.3	178.2	169.1	161.6
20°	220.0	221.3	219.5	217.0	213.1	208.4	202.5	195.7	187.1	177.8	168.9
22.5°	220.7	222.4	220.7	219.0	216.1	213.1	208.1	201.1	192.3	183.4	174.6
25°	224.0	224.5	221.1	218.8	216.1	214.0	210.0	203.9	195.0	185.4	176.8
27.5°	230.9	228.6	221.5	218.2	215.7	213.8	210.0	203.8	194.1	184.3	175.3
30°	229.1	228.3	222.0	219.0	216.8	214.8	210.2	202.2	190.5	180.2	170.9
32.5°	221.8	223.6	221.5	220.4	219.3	216.8	210.0	199.1	186.1	175.5	163.0
35°	217.5	219.7	219.9	219.9	218.6	214.8	206.8	194.7	181.6	167.8	151.0
37.5°	213.2	215.0	216.1	216.8	215.0	209.7	199.5	188.6	174.3	156.2	126.7
40°	208.4	209.7	210.6	210.9	208.2	201.3	192.0	179.6	163.5	133.3	113.1
42.5°	201.6	202.3	202.2	202.0	199.1	191.4	182.7	169.8	138.0	118.9	94.4
45°	190.5	189.8	190.9	190.9	187.1	181.4	169.8	144.8	123.5	99.2	60.8
47.5°	147.6	148.2	153.4	161.8	166.9	165.3	149.6	126.7	103.8	65.1	20.2
50°	137.5	136.9	137.1	138.0	138.5	134.1	122.8	107.1	68.6	21.3	1.4
52.5°	92.2	92.8	96.9	106.4	109.4	106.2	95.4	71.5	25.0	1.4	1.3
55°	29.1	31.1	33.4	38.4	47.2	52.7	51.7	25.4	1.6	1.1	1.3
57.5°	1.1	1.1	1.4	2.5	4.8	7.9	8.2	1.6	1.3	1.3	1.3
60°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9
70°	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
75°	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	114.8	114.8	114.8	114.8	114.8	114.8	114.8	114.8
2.5°	134.1	131.9	127.6	114.8	101.3	87.9	79.5	77.4
5°	144.6	142.1	136.0	111.9	84.7	61.5	48.3	43.3
7.5°	151.0	148.0	140.8	107.4	66.0	35.7	21.4	17.2
10°	153.9	151.2	143.2	100.6	47.7	17.0	7.5	6.3
12.5°	155.1	153.0	144.1	91.7	31.1	7.5	5.5	5.4
15°	155.7	153.4	143.7	80.8	17.7	5.4	5.2	5.2
17.5°	156.2	153.5	141.6	68.3	9.8	5.0	4.8	5.0
20°	160.5	152.8	137.8	54.7	6.4	4.6	4.6	4.8
22.5°	164.8	152.6	131.2	41.8	5.0	4.5	4.6	4.6
25°	166.2	150.9	122.8	29.9	4.3	4.3	4.5	4.6
27.5°	163.5	145.7	111.5	20.2	3.8	4.3	4.5	4.6
30°	157.3	136.9	98.0	12.9	3.6	4.1	4.5	4.6
32.5°	145.7	119.6	82.8	7.7	3.4	4.1	4.6	4.6
35°	122.4	100.3	65.6	3.9	3.4	4.1	4.6	4.8
37.5°	107.1	83.7	45.8	2.7	3.4	4.1	4.6	4.8
40°	88.8	60.4	19.1	2.5	3.4	4.1	4.6	5.0
42.5°	61.5	26.3	3.0	2.3	3.2	4.1	4.8	5.0
45°	22.2	3.4	1.4	2.3	3.2	4.1	4.8	5.0
47.5°	2.0	1.3	1.4	2.3	3.2	4.1	4.8	5.2
50°	1.3	1.3	1.3	2.1	3.2	4.1	4.8	5.2
52.5°	1.3	1.3	1.3	2.1	3.0	4.1	5.0	5.2
55°	1.3	1.3	1.3	2.0	3.0	4.1	4.8	5.2
57.5°	1.3	1.3	1.4	2.0	3.0	3.9	4.8	5.0
60°	1.3	1.3	1.3	2.0	2.9	3.8	4.6	4.8
62.5°	1.1	1.3	1.3	1.8	2.7	3.6	4.5	4.6
65°	1.1	1.1	1.3	1.6	2.5	3.4	4.1	4.5
67.5°	0.9	1.1	1.1	1.4	2.1	3.0	3.8	4.1
70°	0.9	0.9	0.9	1.3	2.0	2.7	3.6	3.8
72.5°	0.7	0.9	0.9	1.1	1.6	2.3	3.0	3.4
75°	0.7	0.7	0.7	0.9	1.4	2.1	2.7	2.9
77.5°	0.5	0.5	0.7	0.7	1.3	1.6	2.3	2.5
80°	0.5	0.5	0.5	0.7	0.9	1.4	1.8	2.0
82.5°	0.4	0.4	0.4	0.5	0.7	0.9	1.3	1.4
85°	0.4	0.4	0.4	0.4	0.5	0.7	0.9	0.9
87.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)