

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: P1307906

Luminaire Tested: LDSQA3D09R159027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307906  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R159027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

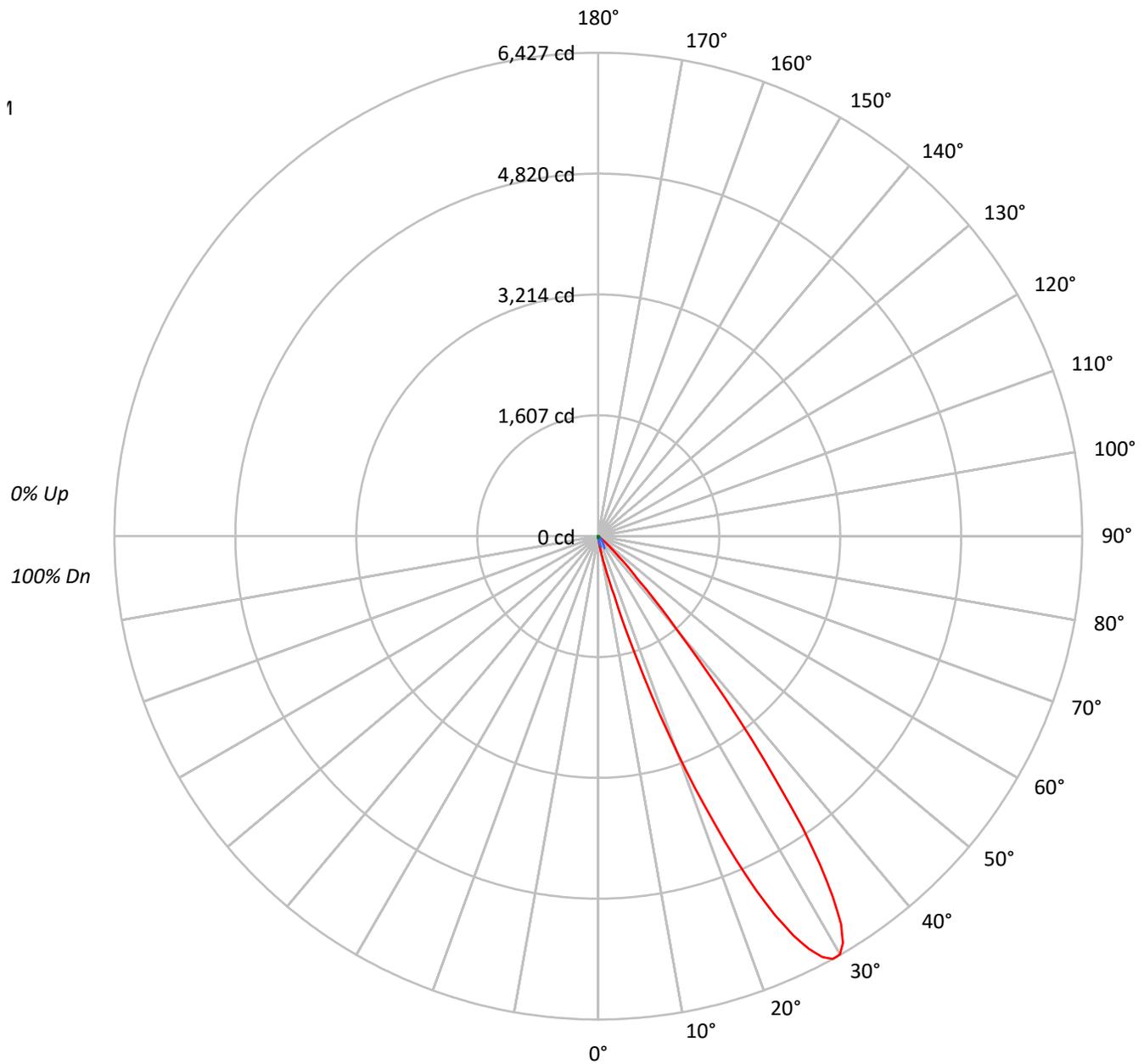
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 702.0 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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	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	75	71	79	74	70	77	73	70	77	73	70	68	
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61	
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55	
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	51	46	42	41	
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37	

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

	0°	45°	90°	135°	180°
0°	3996	3996	3996	3996	3996
5°	8609	6379	3786	2005	1660
10°	38211	12067	2990	839	595
15°	144528	27886	2068	357	250
20°	555801	39294	1246	128	128
25°	1056928	36846	646	0	0
30°	1276777	29730	278	0	0
35°	995805	20247	147	0	0
40°	363400	9982	157	0	157
45°	93308	2996	170	0	341
50°	15728	375	188	188	536
55°	2042	0	420	601	1021
60°	241	241	689	930	1412
65°	285	285	1100	1386	1671
70°	352	352	1360	1360	1712
75°	466	466	1797	1331	1797
80°	0	694	1984	1389	1984
85°	0	1383	3952	1383	1383

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 93308 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	53.8	7.7
20°-30°	298.4	42.5
30°-40°	288.2	41.1
40°-50°	50.1	7.1
50°-60°	3.6	0.5
60°-70°	2.1	0.3
70°-80°	1.7	0.2
80°-90°	0.9	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°	355.3	50.6
0°-40°	643.6	91.7
0°-60°	697.3	99.3
0°-90°	702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	702.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	50	37	22	12	10	10
15°	811	156	12	2	1	361
25°	5562	194	3	0	0	2487
35°	4736	96	1	0	0	2724
45°	383	12	1	0	1	412
55°	7	0	1	2	3	13
65°	1	1	3	3	4	1
75°	1	1	3	2	3	0
85°	0	1	2	1	1	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°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	34.1	32.8	33.5	33.5	33.5	33.5	33.5	32.1	32.1	32.8	29.4
5°	49.8	49.8	49.2	49.8	49.8	49.2	47.8	47.1	47.1	45.8	36.9
7.5°	99.7	98.3	98.3	97.0	90.1	88.1	86.7	83.3	77.2	75.8	47.8
10°	218.5	219.2	214.4	208.3	207.6	197.3	193.9	187.8	176.2	164.6	69.0
12.5°	396.7	387.9	376.3	376.9	357.1	350.3	334.6	317.5	299.8	281.3	113.4
15°	810.6	785.3	800.3	763.4	721.8	674.7	626.9	566.8	515.6	460.9	156.4
17.5°	1707.2	1731.8	1690.1	1532.4	1435.4	1321.4	1160.9	1005.9	873.4	766.9	191.2
20°	3032.6	3068.8	2927.5	2790.2	2554.6	2297.9	2030.2	1727.0	1436.8	1185.5	214.4
21°	3586.4	3564.6	3506.5	3286.7	3014.9	2717.1	2389.4	2054.8	1703.1	1376.7	216.5
22°	4121.8	4132.0	3996.8	3766.7	3484.0	3154.2	2754.0	2340.9	1961.9	1532.4	213.1
23°	4655.1	4687.9	4509.0	4293.2	3937.4	3565.3	3102.3	2656.4	2187.9	1710.6	206.2
24°	5148.8	5126.3	5005.4	4733.7	4353.3	3917.6	3436.9	2896.0	2373.7	1862.9	200.8
25°	5562.0	5559.2	5369.4	5105.1	4670.1	4187.4	3657.4	3092.0	2532.8	1966.0	193.9
26°	5900.0	5844.7	5695.1	5372.8	4943.3	4433.9	3838.4	3234.8	2622.2	2017.9	187.1
27°	6160.8	6121.2	5920.5	5585.2	5136.5	4573.2	3954.5	3305.8	2663.2	2035.0	178.2
28°	6336.3	6293.3	6079.6	5734.1	5243.1	4660.6	4016.0	3335.8	2663.2	2018.6	170.0
29°	6427.2	6368.4	6155.4	5785.3	5267.7	4670.8	4000.9	3306.5	2621.5	1968.0	160.5
30°	6420.3	6347.3	6124.0	5738.8	5194.6	4586.8	3916.9	3200.6	2527.3	1892.9	149.5
31°	6309.7	6227.8	5978.5	5581.8	5043.7	4428.4	3758.5	3058.6	2398.2	1795.3	138.6
32°	6085.1	5981.3	5738.2	5342.8	4811.5	4191.5	3528.4	2839.4	2205.0	1652.5	127.0
33°	5719.0	5614.6	5353.7	4982.9	4497.4	3891.0	3223.1	2603.8	1985.1	1482.5	117.5
34°	5260.8	5165.2	4940.6	4567.0	4101.3	3510.6	2872.1	2278.1	1757.0	1313.8	107.2
35°	4736.4	4584.1	4380.6	4084.9	3630.8	3036.7	2493.2	1974.9	1522.1	1137.0	96.3
36°	4026.9	4054.2	3838.4	3476.5	3100.2	2634.5	2112.8	1646.4	1272.9	969.0	86.7
37°	3398.0	3354.9	3217.7	2937.7	2609.9	2147.6	1770.7	1395.8	1070.7	819.4	76.5
38°	2741.0	2750.6	2616.1	2401.0	2075.9	1765.9	1425.1	1146.5	895.9	697.2	66.9
39°	2145.6	2138.1	2101.9	1902.5	1608.2	1404.7	1154.7	950.6	746.4	588.0	56.7
40°	1616.4	1628.6	1544.0	1423.8	1252.4	1085.1	919.8	758.0	617.3	495.8	44.4
42.5°	786.0	805.1	749.1	718.4	642.6	577.0	486.9	397.4	338.0	292.3	19.8
45°	383.1	372.2	367.4	352.4	334.6	299.1	265.0	227.4	198.7	171.4	12.3
47.5°	196.0	190.5	190.5	184.4	178.2	166.6	149.5	137.3	123.6	106.5	4.8
50°	58.7	58.0	57.4	58.0	56.0	58.0	59.4	60.1	54.6	53.9	1.4
52.5°	23.2	23.9	23.2	25.3	25.3	24.6	25.3	24.6	23.9	21.2	0.0
55°	6.8	6.8	6.8	6.8	6.8	6.8	7.5	8.2	7.5	8.2	0.0
57.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7



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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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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: P1307906

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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	27.3	23.9	19.8	16.4	15.0	14.3
5°	29.4	21.9	15.0	11.6	10.2	9.6
7.5°	31.4	19.8	11.6	8.2	6.1	5.5
10°	32.8	17.1	8.9	4.8	3.4	3.4
12.5°	32.8	13.7	6.1	2.7	2.0	2.0
15°	32.1	11.6	4.1	2.0	1.4	1.4
17.5°	31.4	8.9	2.7	1.4	0.7	1.4
20°	29.4	6.8	1.4	0.7	0.7	0.7
21°	28.7	6.1	1.4	0.7	0.7	0.7
22°	27.3	5.5	0.7	0.0	0.7	0.7
23°	25.9	4.1	0.7	0.0	0.0	0.0
24°	23.9	3.4	0.7	0.0	0.0	0.0
25°	22.5	3.4	0.7	0.0	0.0	0.0
26°	21.2	2.0	0.0	0.0	0.0	0.0
27°	19.1	1.4	0.0	0.0	0.0	0.0
28°	17.8	1.4	0.0	0.0	0.0	0.0
29°	15.7	1.4	0.0	0.0	0.0	0.0
30°	13.7	1.4	0.0	0.0	0.0	0.0
31°	10.9	0.7	0.0	0.0	0.0	0.0
32°	8.9	0.7	0.0	0.0	0.0	0.0
33°	6.1	0.7	0.0	0.0	0.0	0.0
34°	4.1	0.7	0.0	0.0	0.0	0.0
35°	3.4	0.7	0.0	0.0	0.0	0.0
36°	2.0	0.7	0.0	0.0	0.0	0.7
37°	2.0	0.7	0.0	0.0	0.0	0.7
38°	1.4	0.7	0.0	0.0	0.0	0.7
39°	0.7	0.7	0.0	0.0	0.0	0.7
40°	0.7	0.7	0.0	0.0	0.0	0.7
42.5°	0.0	0.7	0.0	0.0	0.7	1.4
45°	0.0	0.7	0.0	0.0	0.7	1.4
47.5°	0.0	0.7	0.0	0.0	1.4	1.4
50°	0.0	0.7	0.7	0.7	1.4	2.0
52.5°	0.0	1.4	0.7	1.4	2.0	2.7
55°	0.7	1.4	1.4	2.0	2.7	3.4
57.5°	0.7	2.0	2.0	2.7	3.4	3.4
60°	1.4	2.0	2.7	2.7	4.1	4.1
62.5°	1.4	2.7	2.7	2.7	4.1	4.1
65°	1.4	2.7	2.7	3.4	4.1	4.1
67.5°	1.4	2.7	2.7	2.7	3.4	4.1
70°	1.4	2.7	2.0	2.7	3.4	3.4
72.5°	1.4	2.7	2.0	2.0	2.7	3.4
75°	1.4	2.7	2.0	2.0	2.7	2.7
77.5°	1.4	2.0	2.0	1.4	2.0	2.0
80°	1.4	2.0	1.4	1.4	2.0	2.0



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.4	2.0	1.4	0.7	1.4	1.4
85°	1.4	2.0	1.4	0.7	0.7	0.7
87.5°	1.4	2.0	0.7	0.0	0.0	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)