

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: P1319924

Luminaire Tested: LDSQA3D09R209840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R209840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

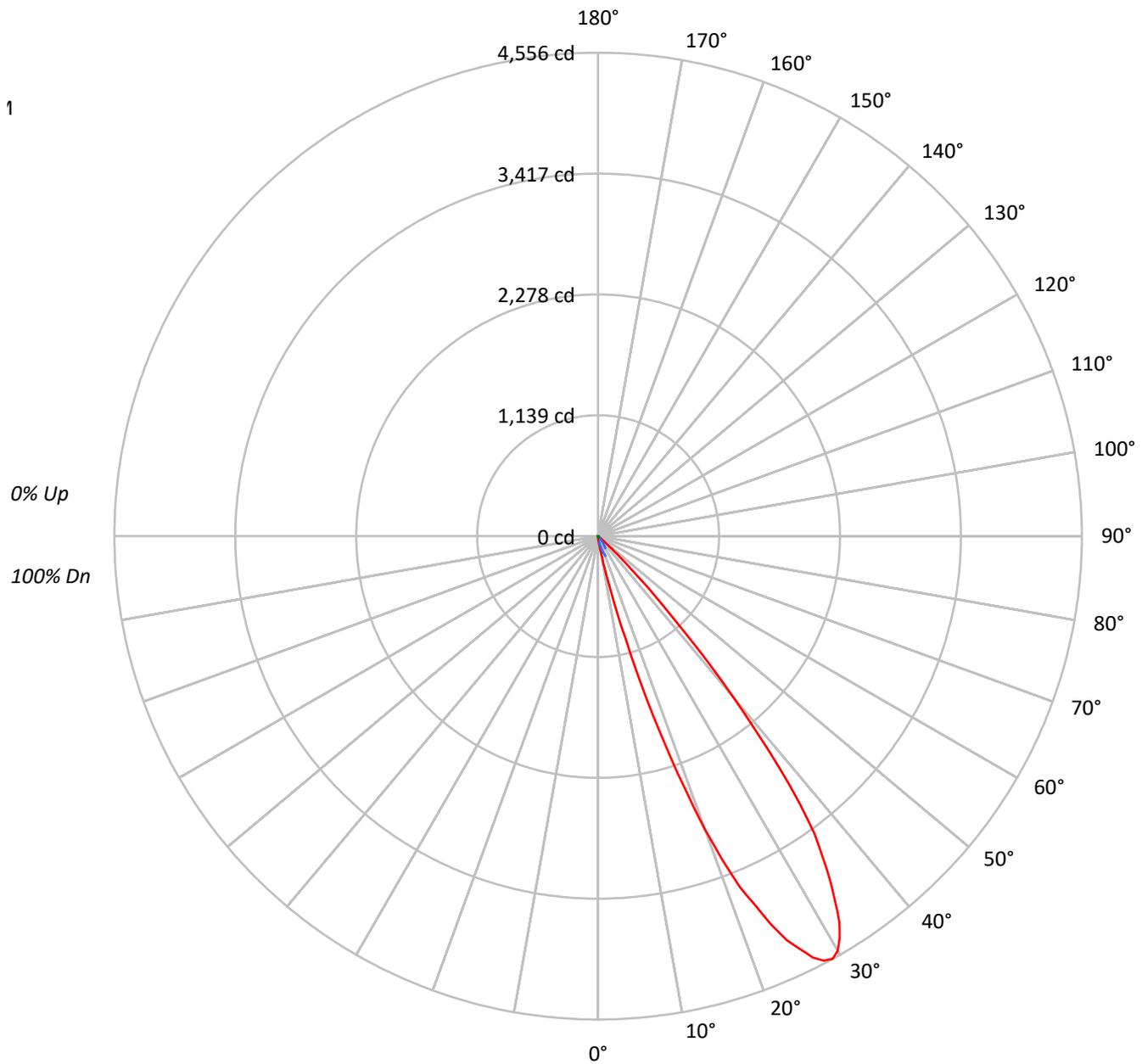
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 639.0 lumens  
Efficiency: N/A  
Efficacy: 58.1 lumens/watt  
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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	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	93	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	76	71	79	74	71	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

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

	0°	45°	90°	135°	180°
0°	3789	3789	3789	3789	3789
5°	8713	6518	3613	2213	1902
10°	27474	11350	2938	1224	909
15°	177995	20986	2175	410	107
20°	537199	35904	1485	0	0
25°	797808	36238	874	0	0
30°	897162	27563	338	0	0
35°	774080	16462	252	0	0
40°	445752	5598	0	0	0
45°	108725	2265	146	0	146
50°	13048	616	161	161	455
55°	1742	0	360	360	691
60°	207	0	586	586	999
65°	245	245	937	937	1426
70°	302	302	1158	1158	1460
75°	0	399	1530	1131	1530
80°	0	595	1686	1190	1686
85°	0	1186	3359	1186	1186

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 109431 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.0	0.5
10°-20°	59.2	9.3
20°-30°	258.1	40.4
30°-40°	259.9	40.7
40°-50°	52.1	8.2
50°-60°	2.6	0.4
60°-70°	1.7	0.3
70°-80°	1.5	0.2
80°-90°	0.8	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°	320.3	50.1
0°-40°	580.2	90.8
0°-60°	635.0	99.4
0°-90°	639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	50	38	21	13	11	8
15°	998	118	12	2	1	391
25°	4198	191	5	0	0	1893
35°	3682	78	1	0	0	2191
45°	446	9	1	0	1	486
55°	6	0	1	1	2	11
65°	1	1	2	2	4	1
75°	0	1	2	2	2	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°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	33.0	33.0	32.5	32.5	31.9	32.5	31.3	31.9	31.9	31.3	28.4
5°	50.4	51.6	51.0	51.0	50.4	51.0	49.9	48.7	47.5	47.5	37.7
7.5°	82.9	82.3	81.2	81.7	80.0	78.8	77.7	77.1	73.6	71.9	49.3
10°	157.1	160.6	157.7	157.1	146.7	146.1	139.1	129.3	120.6	115.9	64.9
12.5°	432.5	451.0	422.0	408.1	400.0	368.7	355.4	321.2	288.1	263.2	82.3
15°	998.3	1044.1	985.5	989.6	940.9	851.6	773.4	706.1	626.7	546.7	117.7
17.5°	1956.0	1918.9	1887.0	1833.1	1734.0	1602.9	1434.2	1263.2	1115.4	960.6	164.1
20°	2931.1	2898.0	2825.6	2707.9	2581.5	2387.3	2186.7	1929.9	1681.2	1448.2	195.9
21°	3266.7	3255.7	3136.9	3064.4	2869.6	2684.1	2452.8	2178.0	1898.0	1622.1	201.2
22°	3566.5	3500.4	3436.6	3329.4	3135.7	2934.0	2676.6	2387.3	2083.5	1776.9	201.7
23°	3774.0	3743.9	3683.6	3562.4	3369.9	3132.8	2861.5	2558.9	2238.9	1886.4	200.0
24°	4003.6	3965.3	3877.2	3735.7	3541.5	3307.3	2997.8	2697.5	2349.6	1978.6	195.4
25°	4198.4	4138.7	4034.3	3881.8	3669.7	3427.9	3116.6	2786.7	2426.7	2040.6	190.7
26°	4324.7	4292.3	4158.4	3992.6	3765.3	3516.0	3198.3	2855.1	2476.6	2069.0	183.2
27°	4456.3	4396.6	4265.0	4074.3	3827.9	3573.4	3244.7	2888.2	2494.0	2070.2	173.9
28°	4531.7	4466.8	4317.8	4117.2	3868.5	3605.3	3271.4	2898.6	2490.5	2052.2	162.9
29°	4555.5	4473.7	4328.2	4124.2	3878.4	3607.6	3267.3	2883.5	2459.8	2008.2	150.1
30°	4511.4	4427.9	4290.0	4091.1	3847.1	3578.6	3229.6	2833.7	2405.3	1945.0	138.6
31°	4415.2	4344.5	4211.1	4011.7	3777.5	3510.8	3144.4	2752.0	2312.5	1860.3	125.2
32°	4288.2	4218.7	4087.6	3907.3	3669.1	3400.1	3027.9	2624.4	2203.5	1734.0	111.9
33°	4097.5	4057.5	3939.8	3767.6	3529.4	3241.8	2871.4	2471.9	2048.2	1593.7	100.3
34°	3904.4	3854.0	3771.7	3583.3	3327.0	3040.1	2667.3	2261.5	1858.6	1436.6	89.3
35°	3681.8	3651.7	3522.4	3371.7	3114.3	2820.9	2450.5	2056.9	1637.7	1261.5	78.3
36°	3466.2	3419.8	3272.5	3113.1	2863.3	2546.1	2180.3	1810.5	1447.0	1097.4	66.7
37°	3153.1	3082.4	2977.5	2809.3	2517.2	2247.0	1913.1	1569.9	1212.2	920.0	53.9
38°	2785.0	2752.0	2606.4	2437.2	2195.4	1939.2	1608.7	1317.7	1000.0	768.1	41.2
39°	2350.8	2350.2	2211.1	2088.7	1852.2	1621.5	1323.5	1069.6	825.5	618.6	31.9
40°	1982.7	1914.3	1828.5	1674.8	1493.4	1297.4	1036.5	837.1	640.6	498.6	24.9
42.5°	1039.4	1033.6	983.2	867.8	766.4	651.0	517.7	431.3	337.4	274.8	15.7
45°	446.4	449.3	414.5	397.1	357.7	309.6	261.5	218.0	186.7	151.3	9.3
47.5°	113.0	108.4	107.2	111.3	111.3	107.8	96.8	91.0	84.1	77.1	5.2
50°	48.7	47.5	46.4	46.4	43.5	41.7	38.8	35.4	32.5	29.0	2.3
52.5°	18.0	18.6	19.1	18.6	18.6	18.0	18.0	17.4	15.7	13.9	1.2
55°	5.8	5.8	5.8	6.4	6.4	7.0	7.0	7.0	7.0	6.4	0.0
57.5°	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.0	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	22.0	22.0	22.0	22.0	22.0	22.0
2.5°	25.5	22.6	19.1	16.2	15.7	15.1
5°	28.4	20.9	15.7	12.8	11.6	11.0
7.5°	30.7	19.1	12.8	9.3	8.1	7.5
10°	31.9	16.8	10.4	7.0	5.2	5.2
12.5°	32.5	14.5	7.5	4.6	2.9	2.9
15°	31.9	12.2	5.8	2.3	0.6	0.6
17.5°	29.0	9.9	3.5	0.6	0.0	0.0
20°	24.9	8.1	2.3	0.0	0.0	0.0
21°	23.8	7.0	1.7	0.0	0.0	0.0
22°	22.0	6.4	1.2	0.0	0.0	0.0
23°	20.3	5.8	1.2	0.0	0.0	0.0
24°	18.6	5.2	0.6	0.0	0.0	0.0
25°	17.4	4.6	0.6	0.0	0.0	0.0
26°	16.2	4.1	0.6	0.0	0.0	0.0
27°	14.5	3.5	0.0	0.0	0.0	0.0
28°	13.3	2.9	0.0	0.0	0.0	0.0
29°	11.6	2.3	0.0	0.0	0.0	0.0
30°	9.9	1.7	0.0	0.0	0.0	0.0
31°	8.1	1.7	0.0	0.0	0.0	0.0
32°	7.0	1.2	0.0	0.0	0.0	0.0
33°	5.8	1.2	0.0	0.0	0.0	0.0
34°	5.2	1.2	0.0	0.0	0.0	0.0
35°	4.6	1.2	0.0	0.0	0.0	0.0
36°	3.5	0.6	0.0	0.0	0.0	0.0
37°	2.9	0.6	0.0	0.0	0.0	0.0
38°	2.3	0.6	0.0	0.0	0.0	0.0
39°	1.7	0.0	0.0	0.0	0.0	0.0
40°	1.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.6	0.0	0.0	0.6	0.6
47.5°	0.0	0.6	0.0	0.0	0.6	1.2
50°	0.0	0.6	0.6	0.6	1.2	1.7
52.5°	0.0	1.2	0.6	0.6	1.7	1.7
55°	0.6	1.2	0.6	1.2	2.3	2.3
57.5°	0.6	1.2	1.2	1.7	2.3	2.9
60°	1.2	1.7	1.7	1.7	2.9	2.9
62.5°	1.2	1.7	2.3	2.3	2.9	3.5
65°	1.2	2.3	2.3	2.3	2.9	3.5
67.5°	1.7	2.3	2.3	2.3	2.9	3.5
70°	1.7	2.3	2.3	2.3	2.9	2.9
72.5°	1.7	2.3	1.7	2.3	2.3	2.9
75°	1.7	2.3	1.7	1.7	2.3	2.3
77.5°	1.2	1.7	1.7	1.2	1.7	1.7
80°	1.2	1.7	1.2	1.2	1.7	1.7



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.7	1.2	0.6	1.2	1.2
85°	1.2	1.7	1.2	0.6	0.6	0.6
87.5°	1.2	1.7	1.2	0.6	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)