

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: P1324153

Luminaire Tested: LDSQA3D05R15W2N902750DE010 3LSQCA30R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324153  
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: LDSQA3D05R15W2N902750DE010 3LSQCA30R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

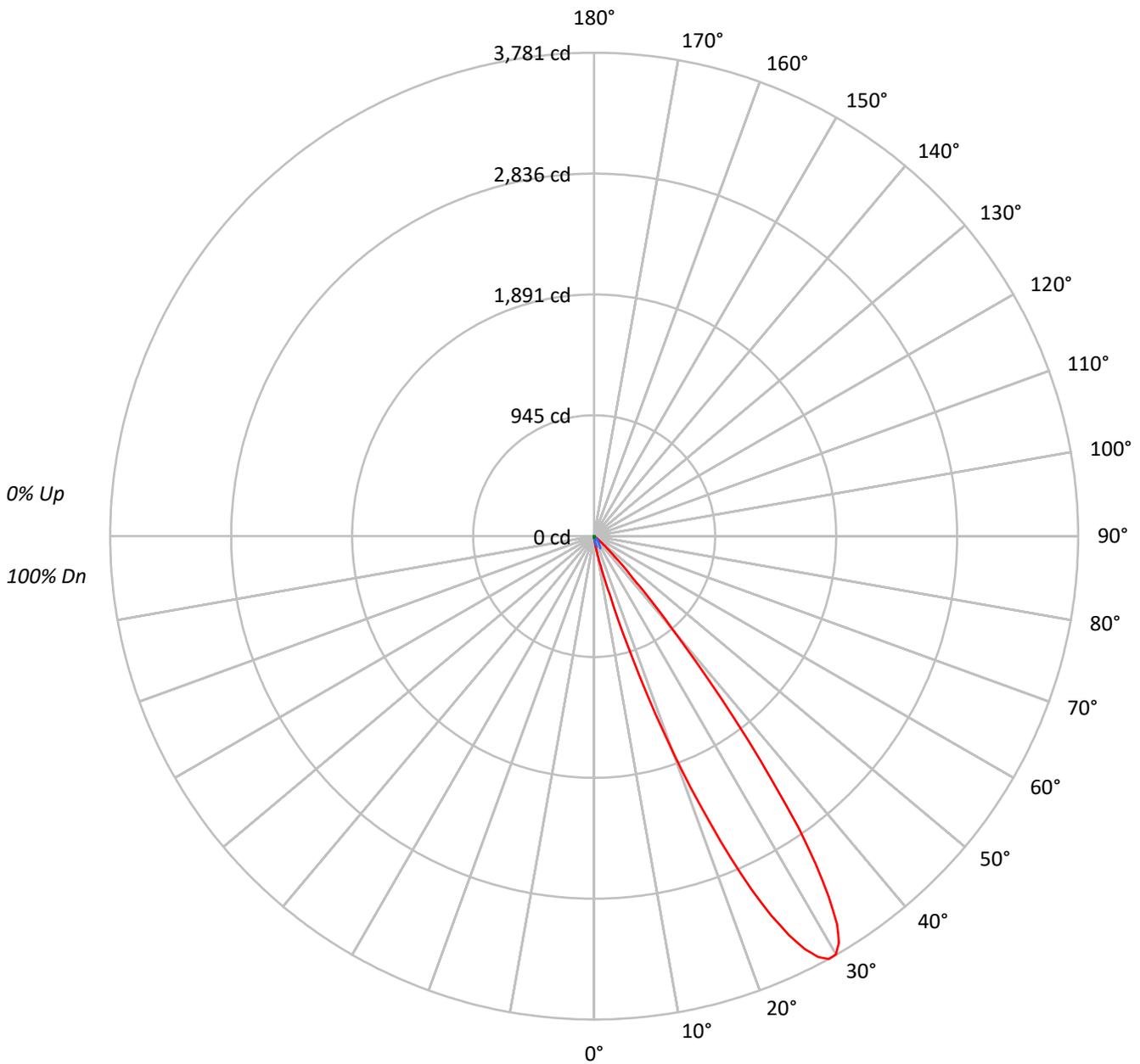
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 413.0 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 5.9  
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	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°	2359	2359	2359	2359	2359
5°	5065	3752	2230	1176	968
10°	22489	7100	1749	490	350
15°	85030	16403	1212	214	143
20°	327000	23111	733	73	73
25°	621805	21682	380	0	0
30°	751155	17500	159	0	0
35°	585848	11900	84	0	0
40°	213782	5868	90	0	90
45°	54898	1754	97	0	195
50°	9270	214	107	107	322
55°	1201	0	240	360	601
60°	138	138	413	551	827
65°	163	163	652	815	978
70°	201	201	806	806	1007
75°	266	266	1065	799	1065
80°	0	397	1190	793	1190
85°	0	790	2371	790	790

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 54898 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.9	0.5
10°-20°	31.6	7.7
20°-30°	175.5	42.5
30°-40°	169.6	41.1
40°-50°	29.5	7.1
50°-60°	2.1	0.5
60°-70°	1.2	0.3
70°-80°	1.0	0.2
80°-90°	0.5	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°	209.0	50.6
0°-40°	378.6	91.7
0°-60°	410.2	99.3
0°-90°	413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	29	22	13	7	6	6
15°	477	92	7	1	1	212
25°	3272	114	2	0	0	1463
35°	2786	57	0	0	0	1603
45°	225	7	0	0	1	242
55°	4	0	1	1	2	8
65°	0	0	2	2	2	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	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°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	20.1	19.3	19.7	19.7	19.7	19.7	19.7	18.9	18.9	19.3	17.3
5°	29.3	29.3	28.9	29.3	29.3	28.9	28.1	27.7	27.7	26.9	21.7
7.5°	58.7	57.9	57.9	57.0	53.0	51.8	51.0	49.0	45.4	44.6	28.1
10°	128.6	129.0	126.1	122.5	122.1	116.1	114.1	110.5	103.7	96.8	40.6
12.5°	233.4	228.2	221.4	221.8	210.1	206.1	196.9	186.8	176.4	165.5	66.7
15°	476.9	462.0	470.8	449.2	424.6	396.9	368.8	333.4	303.3	271.2	92.0
17.5°	1004.4	1018.8	994.3	901.5	844.5	777.4	683.0	591.8	513.8	451.2	112.5
20°	1784.2	1805.4	1722.3	1641.5	1502.9	1351.9	1194.4	1016.0	845.3	697.4	126.1
21°	2110.0	2097.1	2063.0	1933.6	1773.7	1598.5	1405.7	1208.9	1002.0	809.9	127.4
22°	2424.9	2431.0	2351.4	2216.0	2049.7	1855.7	1620.2	1377.2	1154.2	901.5	125.3
23°	2738.7	2758.0	2652.7	2525.8	2316.5	2097.5	1825.1	1562.8	1287.2	1006.4	121.3
24°	3029.2	3015.9	2944.8	2784.9	2561.1	2304.8	2022.0	1703.8	1396.5	1096.0	118.1
25°	3272.2	3270.6	3158.9	3003.4	2747.5	2463.5	2151.7	1819.1	1490.1	1156.6	114.1
26°	3471.1	3438.5	3350.6	3160.9	2908.2	2608.5	2258.2	1903.1	1542.7	1187.2	110.1
27°	3624.5	3601.2	3483.1	3285.9	3021.9	2690.5	2326.5	1944.8	1566.8	1197.2	104.9
28°	3727.8	3702.5	3576.7	3373.5	3084.6	2741.9	2362.7	1962.5	1566.8	1187.6	100.0
29°	3781.2	3746.7	3621.3	3403.6	3099.1	2747.9	2353.8	1945.3	1542.3	1157.8	94.4
30°	3777.2	3734.2	3602.9	3376.3	3056.1	2698.5	2304.4	1883.0	1486.9	1113.6	88.0
31°	3712.1	3663.9	3517.3	3283.9	2967.3	2605.3	2211.2	1799.4	1410.9	1056.2	81.6
32°	3580.0	3518.9	3375.9	3143.3	2830.7	2465.9	2075.8	1670.5	1297.2	972.2	74.7
33°	3364.6	3303.1	3149.7	2931.5	2645.9	2289.1	1896.2	1531.9	1167.9	872.2	69.1
34°	3095.0	3038.8	2906.6	2686.9	2412.9	2065.4	1689.7	1340.2	1033.7	773.0	63.1
35°	2786.5	2696.9	2577.2	2403.2	2136.1	1786.6	1466.8	1161.8	895.5	668.9	56.6
36°	2369.1	2385.2	2258.2	2045.3	1823.9	1549.9	1243.0	968.6	748.9	570.1	51.0
37°	1999.1	1973.8	1893.0	1728.3	1535.5	1263.5	1041.7	821.2	629.9	482.1	45.0
38°	1612.6	1618.2	1539.1	1412.5	1221.3	1038.9	838.4	674.5	527.1	410.2	39.4
39°	1262.3	1257.9	1236.6	1119.3	946.1	826.4	679.4	559.2	439.1	345.9	33.3
40°	950.9	958.2	908.3	837.6	736.8	638.4	541.2	445.9	363.2	291.7	26.1
42.5°	462.4	473.7	440.7	422.6	378.0	339.5	286.4	233.8	198.9	171.9	11.7
45°	225.4	219.0	216.1	207.3	196.9	176.0	155.9	133.8	116.9	100.8	7.2
47.5°	115.3	112.1	112.1	108.5	104.9	98.0	88.0	80.8	72.7	62.7	2.8
50°	34.6	34.1	33.7	34.1	32.9	34.1	35.0	35.4	32.1	31.7	0.8
52.5°	13.7	14.1	13.7	14.9	14.9	14.5	14.9	14.5	14.1	12.5	0.0
55°	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.8	4.4	4.8	0.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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°	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	16.1	14.1	11.7	9.6	8.8	8.4
5°	17.3	12.9	8.8	6.8	6.0	5.6
7.5°	18.5	11.7	6.8	4.8	3.6	3.2
10°	19.3	10.0	5.2	2.8	2.0	2.0
12.5°	19.3	8.0	3.6	1.6	1.2	1.2
15°	18.9	6.8	2.4	1.2	0.8	0.8
17.5°	18.5	5.2	1.6	0.8	0.4	0.8
20°	17.3	4.0	0.8	0.4	0.4	0.4
21°	16.9	3.6	0.8	0.4	0.4	0.4
22°	16.1	3.2	0.4	0.0	0.4	0.4
23°	15.3	2.4	0.4	0.0	0.0	0.0
24°	14.1	2.0	0.4	0.0	0.0	0.0
25°	13.3	2.0	0.4	0.0	0.0	0.0
26°	12.5	1.2	0.0	0.0	0.0	0.0
27°	11.2	0.8	0.0	0.0	0.0	0.0
28°	10.4	0.8	0.0	0.0	0.0	0.0
29°	9.2	0.8	0.0	0.0	0.0	0.0
30°	8.0	0.8	0.0	0.0	0.0	0.0
31°	6.4	0.4	0.0	0.0	0.0	0.0
32°	5.2	0.4	0.0	0.0	0.0	0.0
33°	3.6	0.4	0.0	0.0	0.0	0.0
34°	2.4	0.4	0.0	0.0	0.0	0.0
35°	2.0	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.4	0.0	0.0	0.0	0.4
37°	1.2	0.4	0.0	0.0	0.0	0.4
38°	0.8	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.8
45°	0.0	0.4	0.0	0.0	0.4	0.8
47.5°	0.0	0.4	0.0	0.0	0.8	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.8	1.2	1.6
55°	0.4	0.8	0.8	1.2	1.6	2.0
57.5°	0.4	1.2	1.2	1.6	2.0	2.0
60°	0.8	1.2	1.6	1.6	2.4	2.4
62.5°	0.8	1.6	1.6	1.6	2.4	2.4
65°	0.8	1.6	1.6	2.0	2.4	2.4
67.5°	0.8	1.6	1.6	1.6	2.0	2.4
70°	0.8	1.6	1.2	1.6	2.0	2.0
72.5°	0.8	1.6	1.2	1.2	1.6	2.0
75°	0.8	1.6	1.2	1.2	1.6	1.6
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)