

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: P1312505

Luminaire Tested: LDSQA3D13R159050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312505  
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: LDSQA3D13R159050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

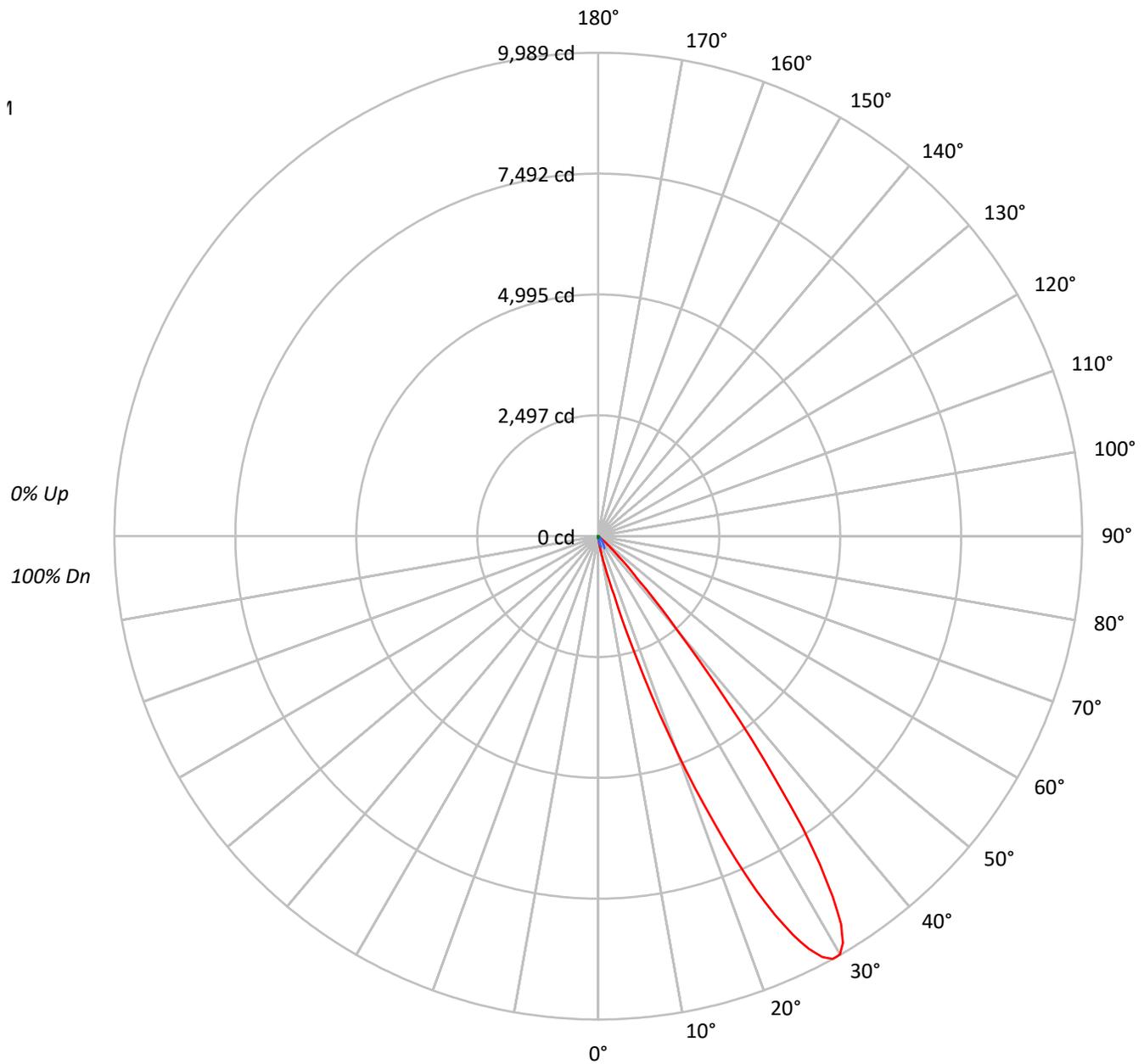
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1091.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 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): 14.6  
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				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	100	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	6217	6217	6217	6217	6217
5°	13398	9906	5878	3112	2576
10°	59389	18747	4634	1294	927
15°	224602	43326	3209	571	374
20°	863796	61067	1943	202	202
25°	1642590	57274	1007	0	0
30°	1984281	46216	418	0	0
35°	1547614	31453	231	0	0
40°	564750	15513	247	0	247
45°	145015	4652	268	0	511
50°	24462	563	295	295	857
55°	3183	0	631	961	1591
60°	379	379	1102	1447	2204
65°	448	448	1712	2160	2608
70°	554	554	2115	2115	2669
75°	732	732	2795	2129	2795
80°	0	1091	3174	2083	3174
85°	0	2174	6323	2174	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 145015 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.0	0.5
10°-20°	83.6	7.7
20°-30°	463.7	42.5
30°-40°	448.0	41.1
40°-50°	77.9	7.1
50°-60°	5.6	0.5
60°-70°	3.3	0.3
70°-80°	2.7	0.2
80°-90°	1.4	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°	552.2	50.6
0°-40°	1000.2	91.7
0°-60°	1083.7	99.3
0°-90°	1091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	78	57	34	18	15	15
15°	1260	243	18	3	2	561
25°	8644	301	5	0	0	3865
35°	7361	150	1	0	0	4233
45°	595	19	1	0	2	640
55°	11	0	2	3	5	21
65°	1	1	4	5	6	1
75°	1	1	4	3	4	1
85°	0	1	3	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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	53.1	50.9	52.0	52.0	52.0	52.0	52.0	49.9	49.9	50.9	45.6
5°	77.5	77.5	76.4	77.5	77.5	76.4	74.3	73.2	73.2	71.1	57.3
7.5°	154.9	152.8	152.8	150.7	140.1	136.9	134.8	129.5	119.9	117.8	74.3
10°	339.6	340.7	333.2	323.7	322.6	306.7	301.4	291.8	273.8	255.8	107.2
12.5°	616.6	602.8	584.8	585.8	555.0	544.4	520.0	493.5	465.9	437.2	176.2
15°	1259.7	1220.5	1243.8	1186.5	1121.8	1048.5	974.2	880.9	801.3	716.4	243.0
17.5°	2653.2	2691.4	2626.6	2381.5	2230.8	2053.6	1804.2	1563.2	1357.4	1191.8	297.2
20°	4713.1	4769.3	4549.7	4336.3	3970.2	3571.2	3155.2	2683.9	2232.9	1842.4	333.2
21°	5573.8	5539.8	5449.6	5107.9	4685.5	4222.8	3713.4	3193.4	2646.8	2139.5	336.4
22°	6405.8	6421.7	6211.6	5854.0	5414.6	4902.0	4280.1	3638.0	3049.0	2381.5	331.1
23°	7234.7	7285.6	7007.6	6672.2	6119.3	5540.9	4821.3	4128.3	3400.3	2658.5	320.5
24°	8002.0	7966.9	7779.1	7356.7	6765.6	6088.5	5341.4	4500.8	3689.0	2895.1	312.0
25°	8644.0	8639.8	8344.8	7934.0	7258.0	6507.7	5684.2	4805.4	3936.2	3055.4	301.4
26°	9169.4	9083.4	8851.0	8350.1	7682.5	6890.8	5965.4	5027.2	4075.3	3136.0	290.8
27°	9574.8	9513.2	9201.2	8680.1	7982.9	7107.3	6145.8	5137.6	4138.9	3162.6	277.0
28°	9847.5	9780.7	9448.5	8911.5	8148.4	7243.2	6241.3	5184.3	4138.9	3137.1	264.3
29°	9988.7	9897.4	9566.3	8991.1	8186.6	7259.1	6218.0	5138.7	4074.2	3058.6	249.4
30°	9978.0	9864.5	9517.5	8918.9	8073.1	7128.5	6087.4	4974.2	3927.8	2941.8	232.4
31°	9806.1	9678.8	9291.4	8674.8	7838.5	6882.3	5841.2	4753.4	3727.2	2790.1	215.4
32°	9457.0	9295.7	8917.8	8303.4	7477.7	6514.1	5483.6	4412.8	3426.8	2568.3	197.4
33°	8888.1	8725.8	8320.3	7744.1	6989.5	6047.1	5009.2	4046.6	3085.1	2304.0	182.5
34°	8176.0	8027.4	7678.3	7097.8	6374.0	5456.0	4463.7	3540.4	2730.6	2041.9	166.6
35°	7361.0	7124.3	6808.0	6348.5	5642.8	4719.5	3874.7	3069.2	2365.6	1767.0	149.6
36°	6258.3	6300.8	5965.4	5402.9	4818.2	4094.4	3283.6	2558.7	1978.2	1505.9	134.8
37°	5280.9	5214.0	5000.7	4565.6	4056.2	3337.7	2751.9	2169.2	1664.1	1273.5	118.9
38°	4259.9	4274.8	4065.7	3731.4	3226.3	2744.4	2214.9	1781.9	1392.4	1083.6	104.0
39°	3334.5	3322.8	3266.6	2956.7	2499.3	2183.0	1794.6	1477.3	1160.0	913.8	88.1
40°	2512.0	2531.1	2399.5	2212.7	1946.4	1686.4	1429.5	1178.0	959.4	770.5	69.0
42.5°	1221.5	1251.2	1164.2	1116.5	998.7	896.8	756.7	617.7	525.3	454.2	30.8
45°	595.4	578.4	571.0	547.6	520.0	464.8	411.8	353.4	308.8	266.4	19.1
47.5°	304.6	296.1	296.1	286.5	277.0	258.9	232.4	213.3	192.1	165.6	7.4
50°	91.3	90.2	89.1	90.2	87.0	90.2	92.3	93.4	84.9	83.8	2.1
52.5°	36.1	37.1	36.1	39.3	39.3	38.2	39.3	38.2	37.1	32.9	0.0
55°	10.6	10.6	10.6	10.6	10.6	10.6	11.7	12.7	11.7	12.7	0.0
57.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1



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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	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	42.5	37.1	30.8	25.5	23.3	22.3
5°	45.6	34.0	23.3	18.0	15.9	14.9
7.5°	48.8	30.8	18.0	12.7	9.6	8.5
10°	50.9	26.5	13.8	7.4	5.3	5.3
12.5°	50.9	21.2	9.6	4.2	3.2	3.2
15°	49.9	18.0	6.4	3.2	2.1	2.1
17.5°	48.8	13.8	4.2	2.1	1.1	2.1
20°	45.6	10.6	2.1	1.1	1.1	1.1
21°	44.6	9.6	2.1	1.1	1.1	1.1
22°	42.5	8.5	1.1	0.0	1.1	1.1
23°	40.3	6.4	1.1	0.0	0.0	0.0
24°	37.1	5.3	1.1	0.0	0.0	0.0
25°	35.0	5.3	1.1	0.0	0.0	0.0
26°	32.9	3.2	0.0	0.0	0.0	0.0
27°	29.7	2.1	0.0	0.0	0.0	0.0
28°	27.6	2.1	0.0	0.0	0.0	0.0
29°	24.4	2.1	0.0	0.0	0.0	0.0
30°	21.2	2.1	0.0	0.0	0.0	0.0
31°	17.0	1.1	0.0	0.0	0.0	0.0
32°	13.8	1.1	0.0	0.0	0.0	0.0
33°	9.6	1.1	0.0	0.0	0.0	0.0
34°	6.4	1.1	0.0	0.0	0.0	0.0
35°	5.3	1.1	0.0	0.0	0.0	0.0
36°	3.2	1.1	0.0	0.0	0.0	1.1
37°	3.2	1.1	0.0	0.0	0.0	1.1
38°	2.1	1.1	0.0	0.0	0.0	1.1
39°	1.1	1.1	0.0	0.0	0.0	1.1
40°	1.1	1.1	0.0	0.0	0.0	1.1
42.5°	0.0	1.1	0.0	0.0	1.1	2.1
45°	0.0	1.1	0.0	0.0	1.1	2.1
47.5°	0.0	1.1	0.0	0.0	2.1	2.1
50°	0.0	1.1	1.1	1.1	2.1	3.2
52.5°	0.0	2.1	1.1	2.1	3.2	4.2
55°	1.1	2.1	2.1	3.2	4.2	5.3
57.5°	1.1	3.2	3.2	4.2	5.3	5.3
60°	2.1	3.2	4.2	4.2	6.4	6.4
62.5°	2.1	4.2	4.2	4.2	6.4	6.4
65°	2.1	4.2	4.2	5.3	6.4	6.4
67.5°	2.1	4.2	4.2	4.2	5.3	6.4
70°	2.1	4.2	3.2	4.2	5.3	5.3
72.5°	2.1	4.2	3.2	3.2	4.2	5.3
75°	2.1	4.2	3.2	3.2	4.2	4.2
77.5°	2.1	3.2	3.2	2.1	3.2	3.2
80°	2.1	3.2	2.1	2.1	3.2	3.2



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.1	3.2	2.1	1.1	2.1	2.1
85°	2.1	3.2	2.1	1.1	1.1	1.1
87.5°	2.1	3.2	1.1	0.0	0.0	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)