

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: P1315870

Luminaire Tested: LDSQA3D20R159735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315870  
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: LDSQA3D20R159735D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

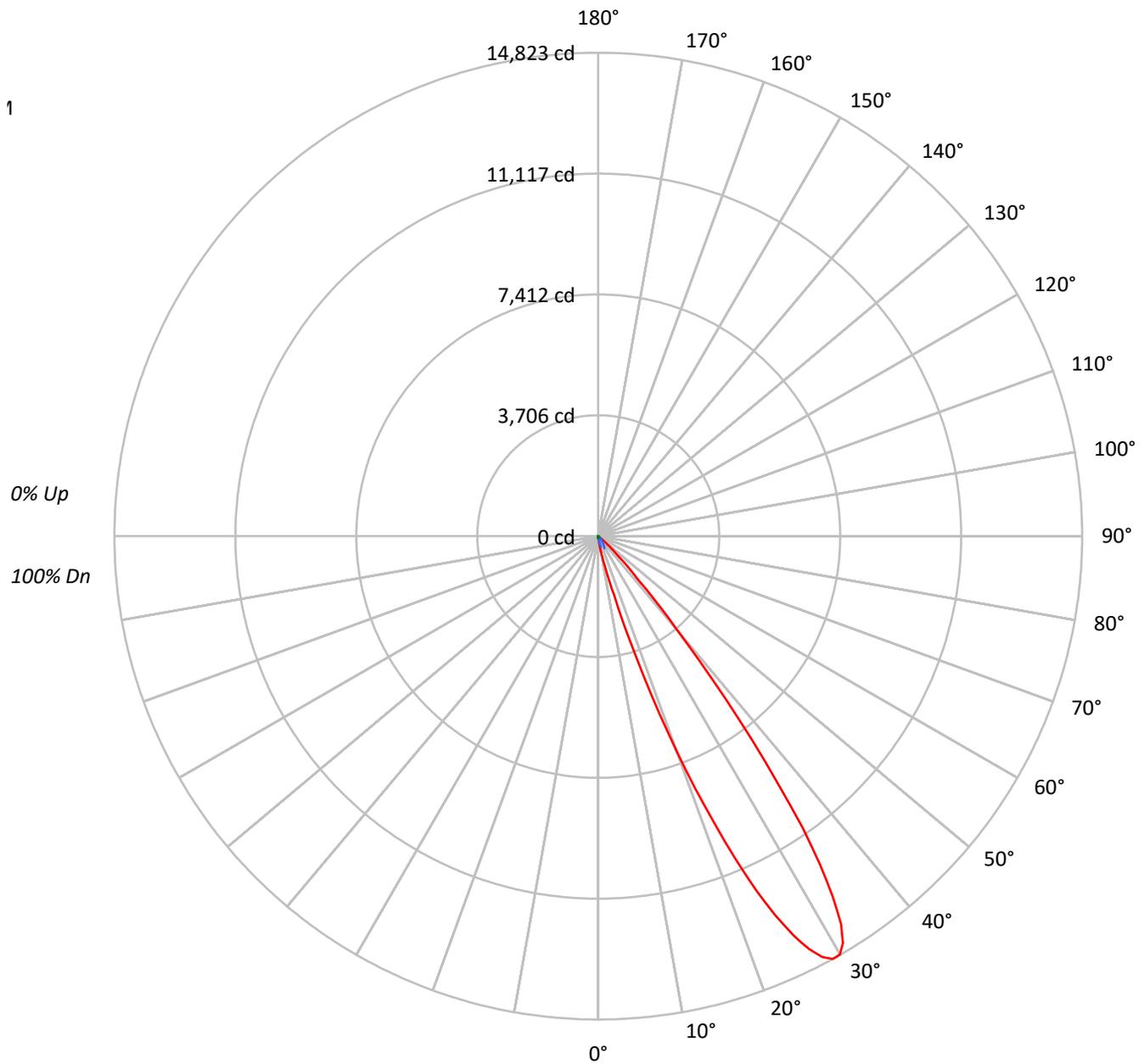
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1619.0 lumens  
Efficiency: N/A  
Efficacy: 56.2 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): 28.8  
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°	9214	9214	9214	9214	9214
5°	19881	14695	8713	4633	3803
10°	88139	27823	6890	1924	1382
15°	333310	64294	4778	838	553
20°	1281829	90630	2877	293	293
25°	2437548	84999	1501	0	0
30°	2944603	68589	616	0	0
35°	2296590	46695	336	0	0
40°	838064	23022	360	0	360
45°	215185	6893	390	0	755
50°	36278	831	429	429	1259
55°	4714	0	931	1411	2372
60°	551	551	1619	2170	3238
65°	652	652	2567	3219	3831
70°	806	806	3172	3172	3978
75°	1065	1065	4192	3127	4192
80°	0	1587	4661	3075	4661
85°	0	3162	9287	3162	3162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 215185 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.3	0.5
10°-20°	124.0	7.7
20°-30°	688.1	42.5
30°-40°	664.8	41.1
40°-50°	115.6	7.1
50°-60°	8.3	0.5
60°-70°	4.9	0.3
70°-80°	4.0	0.2
80°-90°	2.0	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°	819.5	50.6
0°-40°	1484.2	91.7
0°-60°	1608.1	99.3
0°-90°	1619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	115	85	50	27	22	23
15°	1869	361	27	5	3	833
25°	12827	447	8	0	0	5735
35°	10923	222	2	0	0	6282
45°	884	28	2	0	3	949
55°	16	0	3	5	8	31
65°	2	2	6	8	9	2
75°	2	2	6	5	6	1
85°	0	2	5	2	2	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°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	78.7	75.6	77.2	77.2	77.2	77.2	77.2	74.0	74.0	75.6	67.7
5°	115.0	115.0	113.4	115.0	115.0	113.4	110.2	108.7	108.7	105.5	85.0
7.5°	229.9	226.8	226.8	223.6	207.9	203.2	200.0	192.1	178.0	174.8	110.2
10°	504.0	505.5	494.5	480.3	478.8	455.1	447.3	433.1	406.3	379.5	159.1
12.5°	915.0	894.5	867.8	869.3	823.7	807.9	771.7	732.3	691.4	648.9	261.4
15°	1869.4	1811.1	1845.8	1760.7	1664.6	1556.0	1445.7	1307.2	1189.0	1063.0	360.6
17.5°	3937.2	3993.9	3897.8	3534.0	3310.4	3047.4	2677.3	2319.8	2014.3	1768.6	441.0
20°	6994.0	7077.5	6751.5	6435.0	5891.6	5299.5	4682.1	3982.9	3313.5	2734.0	494.5
21°	8271.3	8220.9	8087.0	7579.9	6953.1	6266.4	5510.5	4738.8	3927.8	3175.0	499.2
22°	9506.0	9529.6	9217.8	8687.0	8035.0	7274.4	6351.5	5398.7	4524.6	3534.0	491.4
23°	10736.0	10811.6	10398.9	9901.3	9080.8	8222.4	7154.7	6126.3	5045.9	3945.1	475.6
24°	11874.6	11822.6	11543.9	10917.1	10039.9	9035.1	7926.4	6679.1	5474.3	4296.3	463.0
25°	12827.4	12821.1	12383.3	11773.8	10770.6	9657.2	8435.1	7131.1	5841.2	4534.1	447.3
26°	13607.0	13479.4	13134.5	12391.2	11400.6	10225.7	8852.4	7460.2	6047.5	4653.8	431.5
27°	14208.6	14117.2	13654.2	12880.9	11846.2	10547.0	9120.1	7624.0	6142.0	4693.1	411.0
28°	14613.3	14514.1	14021.2	13224.3	12091.9	10748.6	9261.9	7693.3	6142.0	4655.3	392.1
29°	14822.8	14687.3	14196.0	13342.4	12148.6	10772.2	9227.2	7625.6	6046.0	4538.8	370.1
30°	14807.0	14638.5	14123.5	13235.3	11980.1	10578.5	9033.5	7381.5	5828.6	4365.6	344.9
31°	14551.9	14362.9	13788.1	12873.1	11632.1	10213.1	8668.1	7053.9	5531.0	4140.4	319.7
32°	14033.8	13794.4	13233.7	12321.9	11096.6	9666.6	8137.4	6548.4	5085.3	3811.2	292.9
33°	13189.6	12948.7	12347.1	11491.9	10372.2	8973.7	7433.4	6005.0	4578.2	3419.1	270.9
34°	12132.9	11912.4	11394.3	10532.8	9458.7	8096.5	6623.9	5253.8	4052.2	3030.1	247.3
35°	10923.4	10572.2	10102.9	9420.9	8373.6	7003.5	5749.9	4554.6	3510.4	2622.2	222.1
36°	9287.1	9350.1	8852.4	8017.7	7150.0	6075.9	4872.7	3797.0	2935.6	2234.8	200.0
37°	7836.6	7737.4	7420.8	6775.1	6019.2	4953.0	4083.7	3219.1	2469.4	1889.9	176.4
38°	6321.6	6343.6	6033.4	5537.3	4787.6	4072.6	3286.8	2644.2	2066.2	1608.0	154.3
39°	4948.3	4930.9	4847.5	4387.6	3708.8	3239.5	2663.1	2192.2	1721.3	1356.0	130.7
40°	3727.7	3756.1	3560.8	3283.6	2888.3	2502.5	2121.4	1748.1	1423.7	1143.4	102.4
42.5°	1812.7	1856.8	1727.6	1656.8	1482.0	1330.8	1122.9	916.6	779.6	674.0	45.7
45°	883.5	858.3	847.3	812.6	771.7	689.8	611.1	524.4	458.3	395.3	28.3
47.5°	452.0	439.4	439.4	425.2	411.0	384.3	344.9	316.6	285.1	245.7	11.0
50°	135.4	133.9	132.3	133.9	129.1	133.9	137.0	138.6	126.0	124.4	3.1
52.5°	53.5	55.1	53.5	58.3	58.3	56.7	58.3	56.7	55.1	48.8	0.0
55°	15.7	15.7	15.7	15.7	15.7	15.7	17.3	18.9	17.3	18.9	0.0
57.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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: P1315870

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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	63.0	55.1	45.7	37.8	34.6	33.1
5°	67.7	50.4	34.6	26.8	23.6	22.0
7.5°	72.4	45.7	26.8	18.9	14.2	12.6
10°	75.6	39.4	20.5	11.0	7.9	7.9
12.5°	75.6	31.5	14.2	6.3	4.7	4.7
15°	74.0	26.8	9.4	4.7	3.1	3.1
17.5°	72.4	20.5	6.3	3.1	1.6	3.1
20°	67.7	15.7	3.1	1.6	1.6	1.6
21°	66.1	14.2	3.1	1.6	1.6	1.6
22°	63.0	12.6	1.6	0.0	1.6	1.6
23°	59.8	9.4	1.6	0.0	0.0	0.0
24°	55.1	7.9	1.6	0.0	0.0	0.0
25°	52.0	7.9	1.6	0.0	0.0	0.0
26°	48.8	4.7	0.0	0.0	0.0	0.0
27°	44.1	3.1	0.0	0.0	0.0	0.0
28°	40.9	3.1	0.0	0.0	0.0	0.0
29°	36.2	3.1	0.0	0.0	0.0	0.0
30°	31.5	3.1	0.0	0.0	0.0	0.0
31°	25.2	1.6	0.0	0.0	0.0	0.0
32°	20.5	1.6	0.0	0.0	0.0	0.0
33°	14.2	1.6	0.0	0.0	0.0	0.0
34°	9.4	1.6	0.0	0.0	0.0	0.0
35°	7.9	1.6	0.0	0.0	0.0	0.0
36°	4.7	1.6	0.0	0.0	0.0	1.6
37°	4.7	1.6	0.0	0.0	0.0	1.6
38°	3.1	1.6	0.0	0.0	0.0	1.6
39°	1.6	1.6	0.0	0.0	0.0	1.6
40°	1.6	1.6	0.0	0.0	0.0	1.6
42.5°	0.0	1.6	0.0	0.0	1.6	3.1
45°	0.0	1.6	0.0	0.0	1.6	3.1
47.5°	0.0	1.6	0.0	0.0	3.1	3.1
50°	0.0	1.6	1.6	1.6	3.1	4.7
52.5°	0.0	3.1	1.6	3.1	4.7	6.3
55°	1.6	3.1	3.1	4.7	6.3	7.9
57.5°	1.6	4.7	4.7	6.3	7.9	7.9
60°	3.1	4.7	6.3	6.3	9.4	9.4
62.5°	3.1	6.3	6.3	6.3	9.4	9.4
65°	3.1	6.3	6.3	7.9	9.4	9.4
67.5°	3.1	6.3	6.3	6.3	7.9	9.4
70°	3.1	6.3	4.7	6.3	7.9	7.9
72.5°	3.1	6.3	4.7	4.7	6.3	7.9
75°	3.1	6.3	4.7	4.7	6.3	6.3
77.5°	3.1	4.7	4.7	3.1	4.7	4.7
80°	3.1	4.7	3.1	3.1	4.7	4.7



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.1	4.7	3.1	1.6	3.1	3.1
85°	3.1	4.7	3.1	1.6	1.6	1.6
87.5°	3.1	4.7	1.6	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)