

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: P1315869

Luminaire Tested: LDSQA3D20R159735D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R159735D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

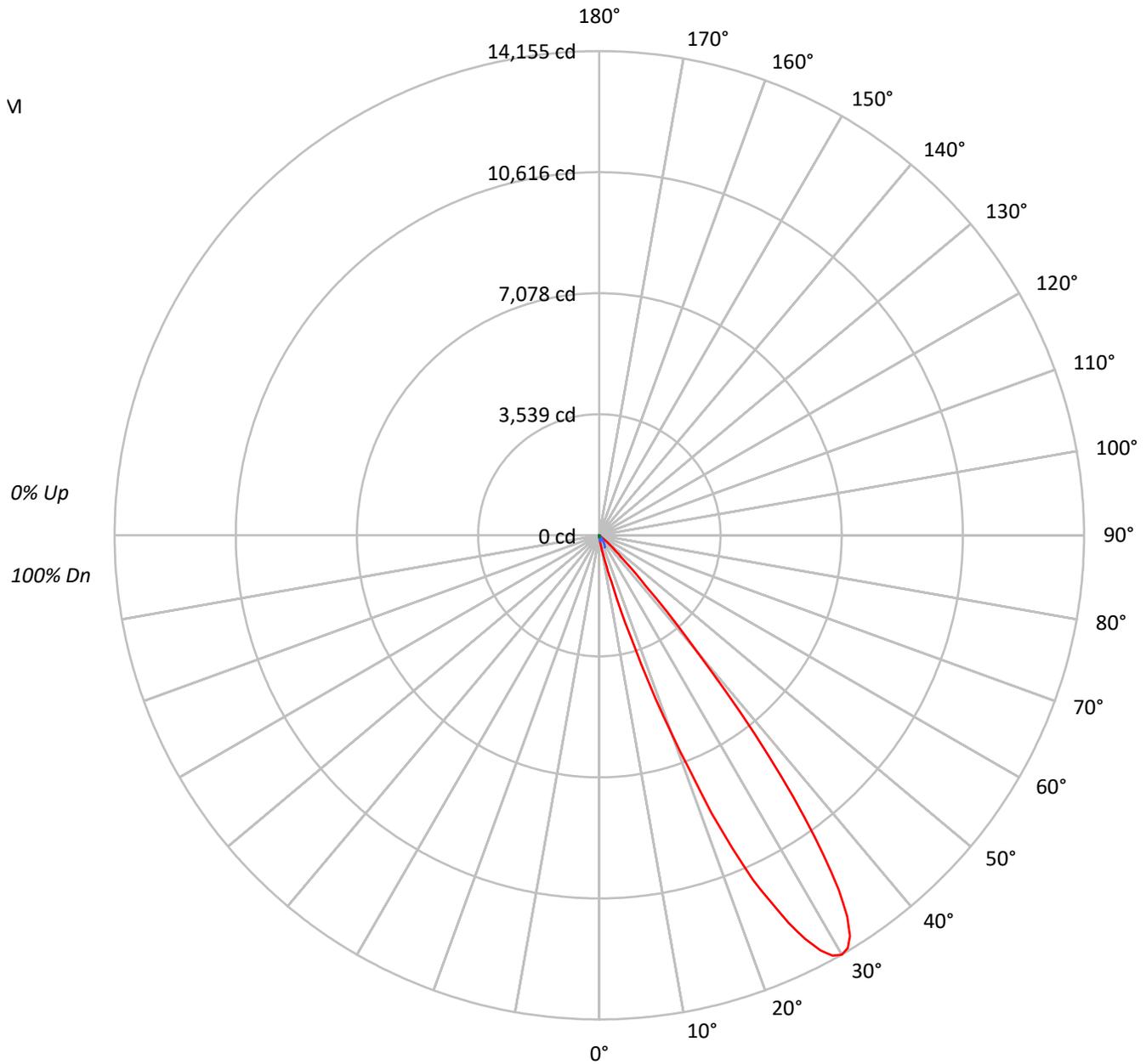
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1497.0 lumens  
Efficiency: N/A  
Efficacy: 52.0 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
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				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
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92				92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61				61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55				55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50				50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45				45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41				41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37				37

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

	0°	45°	90°	135°	180°
0°	9214	9214	9214	9214	9214
5°	26675	20141	7901	3267	2178
10°	69375	30009	5229	0	0
15°	277307	49121	2799	0	0
20°	1132973	72412	861	0	0
25°	2239635	71792	0	0	0
30°	2814942	56657	0	0	0
35°	2401797	34754	0	0	0
40°	988806	10971	0	0	0
45°	213943	4603	0	0	0
50°	27409	0	0	0	0
55°	2372	0	480	0	0
60°	0	0	1068	0	0
65°	0	0	1263	0	0
70°	0	806	2367	0	0
75°	0	1065	3127	0	0
80°	0	1587	4661	0	0
85°	0	3162	9287	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 223904 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.2	0.5
10°-20°	104.9	7.0
20°-30°	611.5	40.8
30°-40°	655.7	43.8
40°-50°	110.7	7.4
50°-60°	3.3	0.2
60°-70°	1.0	0.1
70°-80°	1.5	0.1
80°-90°	1.3	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°	723.6	48.3
0°-40°	1379.2	92.1
0°-60°	1493.3	99.7
0°-90°	1497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1497.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	154	116	46	19	13	21
15°	1555	276	16	0	0	719
25°	11786	378	0	0	0	5332
35°	11424	165	0	0	0	6565
45°	878	19	0	0	0	1038
55°	8	0	2	0	0	20
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
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°	97.6	99.2	100.7	100.7	100.7	100.7	99.2	99.2	99.2	99.2	97.6
5°	154.3	154.3	154.3	154.3	154.3	154.3	152.7	152.7	152.7	152.7	152.7
7.5°	220.4	217.2	218.8	214.1	217.2	215.7	214.1	217.2	217.2	209.4	209.4
10°	396.7	395.1	379.4	382.5	385.7	384.1	384.1	374.7	373.1	366.8	360.5
12.5°	765.0	782.4	795.0	795.0	765.0	776.1	755.6	760.3	763.5	754.0	721.0
15°	1555.3	1583.6	1553.7	1582.0	1571.0	1530.1	1484.4	1423.1	1446.7	1404.2	1390.0
17.5°	3406.5	3471.1	3444.3	3313.6	3356.1	3255.4	3192.4	3168.8	3102.7	2905.9	2824.1
20°	6181.8	6260.5	6186.5	6033.8	6082.6	5892.1	5843.3	5797.7	5504.9	5397.9	5054.7
21°	7349.8	7414.4	7442.7	7283.7	7186.1	7035.0	6909.1	6868.1	6690.3	6484.0	6131.4
22°	8760.3	8684.7	8514.7	8536.8	8391.9	8267.6	8092.8	7927.6	7729.2	7441.1	7149.9
23°	9928.3	9840.2	9759.9	9662.3	9506.5	9418.3	9168.0	8987.0	8728.8	8420.3	8140.1
24°	11016.1	10880.7	10830.3	10657.2	10613.1	10414.8	10211.7	9975.6	9663.9	9334.9	9024.8
25°	11785.9	11806.3	11762.2	11741.8	11516.7	11313.6	11112.1	10748.5	10482.4	10191.2	9714.2
26°	12610.7	12620.2	12598.1	12447.0	12243.9	12045.6	11785.9	11469.5	11083.8	10761.1	10329.7
27°	13242.0	13204.2	13172.7	12993.3	12826.4	12576.1	12340.0	11965.3	11589.1	11205.0	10704.4
28°	13745.7	13674.9	13635.5	13481.2	13286.0	12979.1	12689.4	12340.0	11963.7	11551.3	11009.8
29°	14049.5	13974.0	13929.9	13759.9	13534.8	13265.6	12972.8	12588.7	12184.1	11724.5	11179.8
30°	14155.0	14110.9	14041.7	13865.3	13632.4	13352.2	13051.5	12634.3	12210.9	11740.2	11164.1
31°	14085.7	14029.1	13962.9	13772.5	13520.6	13253.0	12903.5	12465.9	12020.4	11571.8	10961.0
32°	13810.3	13775.6	13695.3	13440.3	13235.7	12889.4	12544.6	12135.3	11648.9	11167.2	10614.7
33°	13293.9	13237.3	13168.0	12935.0	12673.7	12341.5	11998.4	11579.6	11096.4	10587.9	9980.3
34°	12506.8	12434.4	12347.8	12192.0	11858.3	11570.2	11173.5	10683.9	10284.1	9796.1	9246.7
35°	11423.8	11318.3	11214.4	11096.4	10721.7	10455.7	10188.1	9761.5	9375.8	8916.1	8294.3
36°	10208.5	10167.6	10082.6	9770.9	9649.7	9287.6	9072.0	8582.4	8270.7	7820.5	7307.3
37°	8834.3	8593.4	8716.2	8541.5	8176.3	8062.9	7806.3	7386.0	7049.2	6573.8	6202.3
38°	7360.8	7203.4	7290.0	7113.7	6923.2	6661.9	6466.7	6159.8	5782.0	5408.9	5056.3
39°	5833.9	5706.4	5800.8	5681.2	5391.6	5282.9	5109.8	4875.2	4571.4	4280.2	3946.5
40°	4398.2	4234.5	4360.5	4190.5	4058.2	3880.3	3792.2	3576.5	3387.6	3212.9	3000.4
42.5°	2008.6	1991.3	1963.0	1901.6	1887.4	1889.0	1780.4	1709.6	1613.5	1501.8	1434.1
45°	878.4	900.4	919.3	884.7	883.1	864.2	857.9	810.7	791.8	755.6	711.5
47.5°	432.9	440.8	436.0	445.5	437.6	425.0	421.9	415.6	396.7	395.1	374.7
50°	102.3	100.7	100.7	102.3	100.7	100.7	99.2	96.0	94.5	96.0	91.3
52.5°	33.1	34.6	33.1	31.5	33.1	34.6	33.1	33.1	33.1	33.1	33.1
55°	7.9	7.9	7.9	7.9	7.9	7.9	6.3	6.3	7.9	7.9	7.9
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
2.5°	96.0	81.9	67.7	53.5	39.4	31.5	29.9	28.3
5°	144.8	116.5	77.1	45.7	26.8	18.9	14.2	12.6
7.5°	195.2	144.8	85.0	37.8	18.9	7.9	3.1	1.6
10°	280.2	171.6	88.2	29.9	9.4	0.0	0.0	0.0
12.5°	549.4	196.8	86.6	23.6	1.6	0.0	0.0	0.0
15°	913.0	275.5	80.3	15.7	0.0	0.0	0.0	0.0
17.5°	1495.5	355.8	69.3	11.0	0.0	0.0	0.0	0.0
20°	2318.8	395.1	53.5	4.7	0.0	0.0	0.0	0.0
21°	2718.6	398.3	47.2	3.1	0.0	0.0	0.0	0.0
22°	3064.9	398.3	40.9	1.6	0.0	0.0	0.0	0.0
23°	3386.1	393.5	36.2	0.0	0.0	0.0	0.0	0.0
24°	3650.5	387.2	33.1	0.0	0.0	0.0	0.0	0.0
25°	3848.9	377.8	29.9	0.0	0.0	0.0	0.0	0.0
26°	3940.2	365.2	25.2	0.0	0.0	0.0	0.0	0.0
27°	3985.8	347.9	22.0	0.0	0.0	0.0	0.0	0.0
28°	3954.3	329.0	18.9	0.0	0.0	0.0	0.0	0.0
29°	3875.6	308.5	14.2	0.0	0.0	0.0	0.0	0.0
30°	3773.3	284.9	11.0	0.0	0.0	0.0	0.0	0.0
31°	3623.8	261.3	7.9	0.0	0.0	0.0	0.0	0.0
32°	3419.1	237.7	6.3	0.0	0.0	0.0	0.0	0.0
33°	3145.2	212.5	3.1	0.0	0.0	0.0	0.0	0.0
34°	2806.8	187.3	1.6	0.0	0.0	0.0	0.0	0.0
35°	2427.4	165.3	0.0	0.0	0.0	0.0	0.0	0.0
36°	2101.5	141.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	1774.1	113.3	0.0	0.0	0.0	0.0	0.0	0.0
38°	1486.0	89.7	0.0	0.0	0.0	0.0	0.0	0.0
39°	1229.4	72.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	1018.5	48.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	563.6	33.1	0.0	0.0	0.0	0.0	0.0	0.0
45°	341.6	18.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	198.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	75.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.3	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.1	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.1	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.1	3.1	1.6	0.0	0.0	0.0
67.5°	0.0	0.0	3.1	4.7	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.1	4.7	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)