

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: P1319906

Luminaire Tested: LDSQA3D09R159840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319906
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: LDSQA3D09R159840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

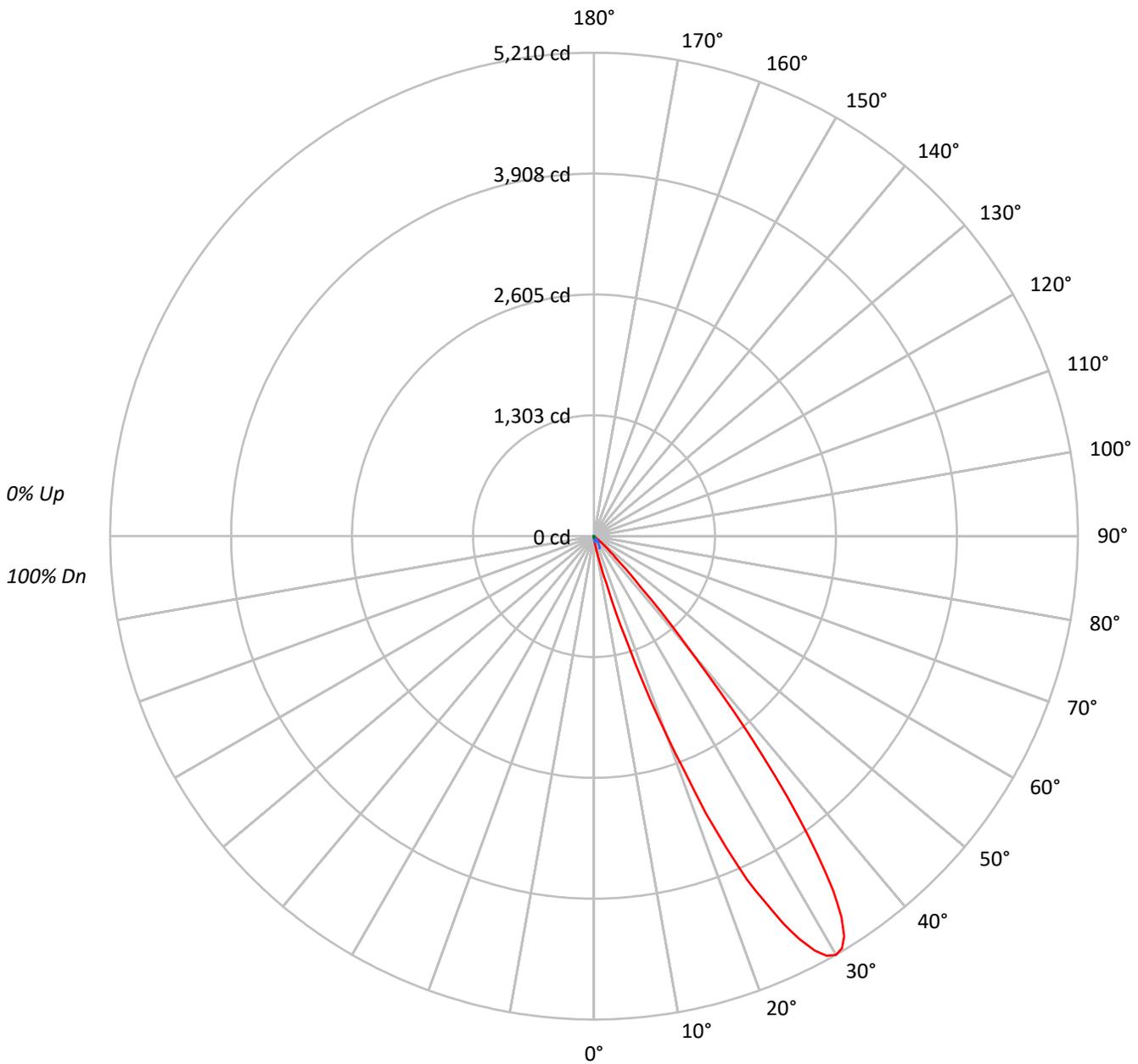
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 551.0 lumens
Efficiency: N/A
Efficacy: 50.1 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): 11
Input Voltage (V): NR
Input Current (A_{in}): 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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	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	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3393	3393	3393	3393	3393
5°	9820	7417	2904	1210	795
10°	25532	11052	1924	0	0
15°	102076	18079	1034	0	0
20°	417007	26648	312	0	0
25°	824336	26433	0	0	0
30°	1036090	20861	0	0	0
35°	884038	12783	0	0	0
40°	363962	4047	0	0	0
45°	78743	1705	0	0	0
50°	10101	0	0	0	0
55°	871	0	180	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	302	856	0	0
75°	0	399	1131	0	0
80°	0	595	1686	0	0
85°	0	1186	3359	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 82421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	38.6	7.0
20°-30°	225.1	40.8
30°-40°	241.3	43.8
40°-50°	40.7	7.4
50°-60°	1.2	0.2
60°-70°	0.4	0.1
70°-80°	0.5	0.1
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°	266.3	48.3
0°-40°	507.7	92.1
0°-60°	549.6	99.7
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	57	43	17	7	5	8
15°	572	101	6	0	0	265
25°	4338	139	0	0	0	1963
35°	4205	61	0	0	0	2416
45°	323	7	0	0	0	382
55°	3	0	1	0	0	7
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	35.9	36.5	37.1	37.1	37.1	37.1	36.5	36.5	36.5	36.5	35.9
5°	56.8	56.8	56.8	56.8	56.8	56.8	56.2	56.2	56.2	56.2	56.2
7.5°	81.1	80.0	80.5	78.8	80.0	79.4	78.8	80.0	80.0	77.1	77.1
10°	146.0	145.4	139.6	140.8	142.0	141.4	141.4	137.9	137.3	135.0	132.7
12.5°	281.6	288.0	292.6	292.6	281.6	285.6	278.1	279.9	281.0	277.5	265.4
15°	572.5	582.9	571.9	582.3	578.2	563.2	546.4	523.8	532.5	516.8	511.6
17.5°	1253.8	1277.6	1267.7	1219.7	1235.3	1198.2	1175.0	1166.3	1142.0	1069.6	1039.5
20°	2275.3	2304.3	2277.1	2220.9	2238.8	2168.7	2150.8	2134.0	2026.2	1986.8	1860.5
21°	2705.2	2729.0	2739.4	2680.9	2645.0	2589.4	2543.0	2527.9	2462.5	2386.6	2256.8
22°	3224.4	3196.6	3134.0	3142.1	3088.8	3043.0	2978.7	2917.9	2844.9	2738.9	2631.7
23°	3654.3	3621.9	3592.3	3556.4	3499.0	3466.6	3374.5	3307.8	3212.8	3099.2	2996.1
24°	4054.7	4004.9	3986.3	3922.6	3906.4	3833.4	3758.6	3671.7	3557.0	3435.9	3321.7
25°	4338.0	4345.5	4329.3	4321.8	4238.9	4164.2	4090.0	3956.2	3858.3	3751.1	3575.5
26°	4641.6	4645.1	4637.0	4581.4	4506.6	4433.6	4338.0	4221.6	4079.6	3960.8	3802.1
27°	4874.0	4860.1	4848.5	4782.4	4721.0	4628.9	4542.0	4404.1	4265.6	4124.2	3940.0
28°	5059.4	5033.3	5018.8	4962.0	4890.2	4777.2	4670.6	4542.0	4403.5	4251.7	4052.4
29°	5171.2	5143.4	5127.2	5064.6	4981.7	4882.7	4774.9	4633.5	4484.6	4315.4	4114.9
30°	5210.0	5193.8	5168.3	5103.4	5017.7	4914.5	4803.9	4650.3	4494.5	4321.2	4109.1
31°	5184.5	5163.7	5139.3	5069.2	4976.5	4878.0	4749.4	4588.3	4424.3	4259.2	4034.4
32°	5083.1	5070.4	5040.8	4947.0	4871.6	4744.2	4617.3	4466.6	4287.6	4110.3	3906.9
33°	4893.1	4872.2	4846.7	4761.0	4664.8	4542.5	4416.2	4262.1	4084.2	3897.1	3673.4
34°	4603.4	4576.7	4544.9	4487.5	4364.7	4258.6	4112.6	3932.4	3785.3	3605.6	3403.4
35°	4204.8	4165.9	4127.7	4084.2	3946.3	3848.4	3749.9	3592.9	3450.9	3281.8	3052.9
36°	3757.5	3742.4	3711.1	3596.4	3551.8	3418.5	3339.1	3158.9	3044.2	2878.5	2689.6
37°	3251.6	3163.0	3208.2	3143.9	3009.4	2967.7	2873.3	2718.6	2594.6	2419.6	2282.9
38°	2709.3	2651.4	2683.2	2618.3	2548.2	2452.0	2380.2	2267.2	2128.2	1990.8	1861.1
39°	2147.3	2100.3	2135.1	2091.1	1984.5	1944.5	1880.8	1794.4	1682.6	1575.4	1452.6
40°	1618.9	1558.6	1605.0	1542.4	1493.7	1428.2	1395.8	1316.4	1246.9	1182.6	1104.3
42.5°	739.3	732.9	722.5	699.9	694.7	695.3	655.3	629.2	593.9	552.8	527.8
45°	323.3	331.4	338.4	325.6	325.0	318.1	315.8	298.4	291.4	278.1	261.9
47.5°	159.3	162.2	160.5	164.0	161.1	156.4	155.3	153.0	146.0	145.4	137.9
50°	37.7	37.1	37.1	37.7	37.1	37.1	36.5	35.3	34.8	35.3	33.6
52.5°	12.2	12.7	12.2	11.6	12.2	12.7	12.2	12.2	12.2	12.2	12.2
55°	2.9	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.9	2.9	2.9
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°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	35.3	30.1	24.9	19.7	14.5	11.6	11.0	10.4
5°	53.3	42.9	28.4	16.8	9.8	7.0	5.2	4.6
7.5°	71.8	53.3	31.3	13.9	7.0	2.9	1.2	0.6
10°	103.1	63.2	32.4	11.0	3.5	0.0	0.0	0.0
12.5°	202.2	72.4	31.9	8.7	0.6	0.0	0.0	0.0
15°	336.1	101.4	29.5	5.8	0.0	0.0	0.0	0.0
17.5°	550.4	130.9	25.5	4.1	0.0	0.0	0.0	0.0
20°	853.5	145.4	19.7	1.7	0.0	0.0	0.0	0.0
21°	1000.6	146.6	17.4	1.2	0.0	0.0	0.0	0.0
22°	1128.1	146.6	15.1	0.6	0.0	0.0	0.0	0.0
23°	1246.3	144.9	13.3	0.0	0.0	0.0	0.0	0.0
24°	1343.6	142.5	12.2	0.0	0.0	0.0	0.0	0.0
25°	1416.6	139.1	11.0	0.0	0.0	0.0	0.0	0.0
26°	1450.3	134.4	9.3	0.0	0.0	0.0	0.0	0.0
27°	1467.1	128.0	8.1	0.0	0.0	0.0	0.0	0.0
28°	1455.5	121.1	7.0	0.0	0.0	0.0	0.0	0.0
29°	1426.5	113.6	5.2	0.0	0.0	0.0	0.0	0.0
30°	1388.8	104.9	4.1	0.0	0.0	0.0	0.0	0.0
31°	1333.8	96.2	2.9	0.0	0.0	0.0	0.0	0.0
32°	1258.5	87.5	2.3	0.0	0.0	0.0	0.0	0.0
33°	1157.7	78.2	1.2	0.0	0.0	0.0	0.0	0.0
34°	1033.1	68.9	0.6	0.0	0.0	0.0	0.0	0.0
35°	893.4	60.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	773.5	52.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	653.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	547.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0
39°	452.5	26.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	374.9	18.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	207.4	12.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	125.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	73.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.6	1.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.6	1.2	0.6	0.0	0.0	0.0
65°	0.0	0.0	1.2	1.2	0.6	0.0	0.0	0.0
67.5°	0.0	0.0	1.2	1.7	0.6	0.0	0.0	0.0
70°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
72.5°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
75°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
77.5°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
80°	0.0	0.6	1.2	1.7	0.6	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	0.6	1.2	1.7	0.6	0.0	0.0	0.0
85°	0.0	0.6	1.2	1.7	0.6	0.0	0.0	0.0
87.5°	0.0	0.6	1.2	1.7	0.6	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)