

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: P1312954

Luminaire Tested: LDSQA3D24R159050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312954
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: LDSQA3D24R159050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

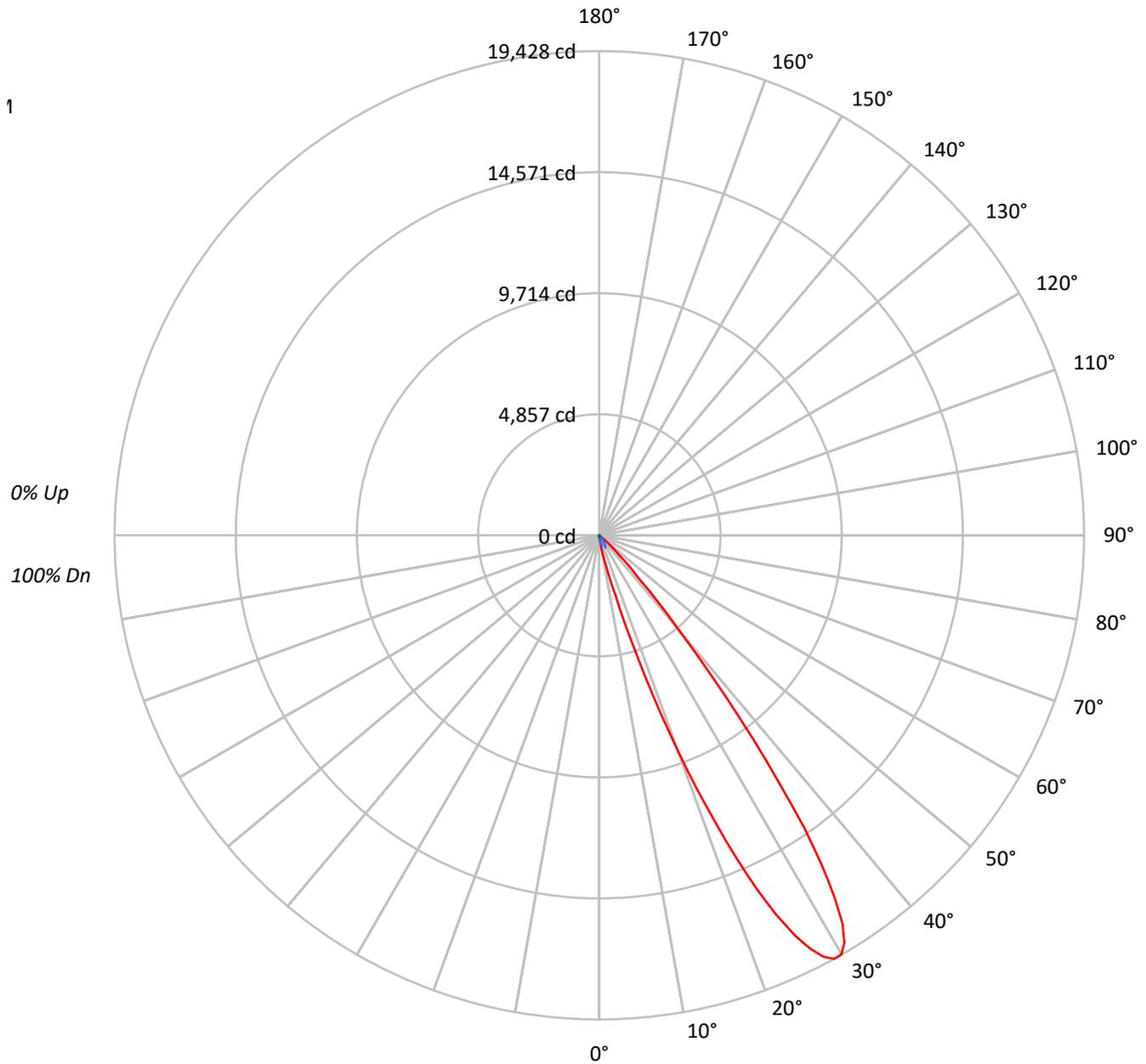
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122.1 lumens
Efficiency: N/A
Efficacy: 73.7 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): 28.8
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	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°	12090	12090	12090	12090	12090
5°	26053	19276	11427	6068	4996
10°	115508	36462	9024	2518	1801
15°	436866	84281	6258	1105	731
20°	1680087	118799	3775	385	385
25°	3194861	111394	1957	0	0
30°	3859464	89907	815	0	0
35°	3010099	61181	442	0	0
40°	1098451	30171	472	0	472
45°	282042	9060	511	0	999
50°	47558	1099	563	563	1661
55°	6185	0	1231	1862	3093
60°	723	723	2136	2859	4271
65°	856	856	3382	4197	5053
70°	1057	1057	4179	4179	5187
75°	1397	1397	5523	4126	5523
80°	0	2083	6149	4066	6149
85°	0	4150	12251	4150	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 282042 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	0.5
10°-20°	162.6	7.7
20°-30°	901.9	42.5
30°-40°	871.3	41.1
40°-50°	151.5	7.1
50°-60°	10.9	0.5
60°-70°	6.4	0.3
70°-80°	5.2	0.2
80°-90°	2.6	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°	1074.1	50.6
0°-40°	1945.4	91.7
0°-60°	2107.8	99.3
0°-90°	2122.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2122.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	151	112	66	35	29	30
15°	2450	473	35	6	4	1092
25°	16813	586	10	0	0	7517
35°	14317	291	2	0	0	8234
45°	1158	37	2	0	4	1244
55°	21	0	4	6	10	40
65°	2	2	8	10	12	2
75°	2	2	8	6	8	1
85°	0	2	6	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°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	103.2	99.1	101.1	101.1	101.1	101.1	101.1	97.0	97.0	99.1	88.8
5°	150.7	150.7	148.6	150.7	150.7	148.6	144.5	142.4	142.4	138.3	111.5
7.5°	301.4	297.2	297.2	293.1	272.5	266.3	262.1	251.8	233.3	229.1	144.5
10°	660.5	662.6	648.2	629.6	627.5	596.5	586.2	567.6	532.6	497.5	208.5
12.5°	1199.3	1172.4	1137.4	1139.4	1079.6	1058.9	1011.4	959.8	906.2	850.4	342.7
15°	2450.2	2373.8	2419.2	2307.7	2181.8	2039.4	1894.9	1713.3	1558.5	1393.3	472.7
17.5°	5160.4	5234.7	5108.8	4632.0	4338.9	3994.2	3509.1	3040.5	2640.1	2318.1	578.0
20°	9167.0	9276.4	8849.1	8434.2	7722.1	6945.9	6136.8	5220.3	4343.0	3583.4	648.2
21°	10841.0	10775.0	10599.5	9934.9	9113.3	8213.3	7222.5	6211.1	5148.0	4161.4	654.3
22°	12459.3	12490.3	12081.6	11386.0	10531.4	9534.4	8324.8	7076.0	5930.4	4632.0	644.0
23°	14071.5	14170.5	13629.7	12977.5	11902.0	10777.0	9377.5	8029.6	6613.6	5170.8	623.4
24°	15563.9	15495.7	15130.4	14308.8	13159.1	11842.2	10389.0	8754.2	7175.1	5631.1	606.9
25°	16812.7	16804.4	16230.6	15431.8	14116.9	12657.5	11055.7	9346.6	7656.0	5942.8	586.2
26°	17834.5	17667.3	17215.2	16240.9	14942.5	13402.7	11602.7	9778.0	7926.4	6099.6	565.6
27°	18623.0	18503.2	17896.4	16882.9	15526.7	13823.8	11953.6	9992.7	8050.3	6151.2	538.7
28°	19153.5	19023.4	18377.3	17332.9	15848.7	14088.0	12139.4	10083.5	8050.3	6101.7	514.0
29°	19428.0	19250.5	18606.5	17487.7	15923.0	14118.9	12094.0	9994.7	7924.4	5948.9	485.1
30°	19407.4	19186.5	18511.5	17347.3	15702.2	13865.0	11840.1	9674.8	7639.5	5721.9	452.1
31°	19073.0	18825.3	18071.8	16872.5	15246.0	13386.2	11361.2	9245.4	7249.4	5426.7	419.0
32°	18393.8	18080.1	17345.2	16150.1	14544.2	12669.9	10665.6	8582.8	6665.2	4995.3	383.9
33°	17287.4	16971.6	16183.1	15062.3	13594.6	11761.7	9742.9	7870.7	6000.5	4481.3	355.0
34°	15902.4	15613.4	14934.3	13805.2	12397.4	10611.9	8681.9	6886.1	5311.1	3971.5	324.1
35°	14317.1	13856.8	13241.7	12347.9	10975.2	9179.4	7536.3	5969.6	4601.0	3436.8	291.0
36°	12172.4	12255.0	11602.7	10508.7	9371.3	7963.6	6386.5	4976.7	3847.6	2929.1	262.1
37°	10271.3	10141.3	9726.4	8880.1	7889.3	6491.8	5352.4	4219.2	3236.6	2477.0	231.2
38°	8285.6	8314.5	7907.8	7257.6	6275.1	5338.0	4307.9	3465.7	2708.2	2107.5	202.3
39°	6485.6	6462.9	6353.5	5750.8	4861.1	4246.0	3490.5	2873.3	2256.1	1777.3	171.3
40°	4885.9	4923.1	4667.1	4303.8	3785.7	3280.0	2780.4	2291.2	1866.0	1498.6	134.2
42.5°	2375.9	2433.7	2264.4	2171.5	1942.4	1744.2	1471.8	1201.3	1021.8	883.5	59.9
45°	1158.0	1125.0	1110.5	1065.1	1011.4	904.1	800.9	687.4	600.7	518.1	37.2
47.5°	592.4	575.9	575.9	557.3	538.7	503.7	452.1	414.9	373.6	322.0	14.4
50°	177.5	175.5	173.4	175.5	169.3	175.5	179.6	181.6	165.1	163.1	4.1
52.5°	70.2	72.2	70.2	76.4	76.4	74.3	76.4	74.3	72.2	64.0	0.0
55°	20.6	20.6	20.6	20.6	20.6	20.6	22.7	24.8	22.7	24.8	0.0
57.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0
60°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	2.1
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
65°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1



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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	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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°	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	82.6	72.2	59.9	49.5	45.4	43.3
5°	88.8	66.1	45.4	35.1	31.0	28.9
7.5°	95.0	59.9	35.1	24.8	18.6	16.5
10°	99.1	51.6	26.8	14.4	10.3	10.3
12.5°	99.1	41.3	18.6	8.3	6.2	6.2
15°	97.0	35.1	12.4	6.2	4.1	4.1
17.5°	95.0	26.8	8.3	4.1	2.1	4.1
20°	88.8	20.6	4.1	2.1	2.1	2.1
21°	86.7	18.6	4.1	2.1	2.1	2.1
22°	82.6	16.5	2.1	0.0	2.1	2.1
23°	78.4	12.4	2.1	0.0	0.0	0.0
24°	72.2	10.3	2.1	0.0	0.0	0.0
25°	68.1	10.3	2.1	0.0	0.0	0.0
26°	64.0	6.2	0.0	0.0	0.0	0.0
27°	57.8	4.1	0.0	0.0	0.0	0.0
28°	53.7	4.1	0.0	0.0	0.0	0.0
29°	47.5	4.1	0.0	0.0	0.0	0.0
30°	41.3	4.1	0.0	0.0	0.0	0.0
31°	33.0	2.1	0.0	0.0	0.0	0.0
32°	26.8	2.1	0.0	0.0	0.0	0.0
33°	18.6	2.1	0.0	0.0	0.0	0.0
34°	12.4	2.1	0.0	0.0	0.0	0.0
35°	10.3	2.1	0.0	0.0	0.0	0.0
36°	6.2	2.1	0.0	0.0	0.0	2.1
37°	6.2	2.1	0.0	0.0	0.0	2.1
38°	4.1	2.1	0.0	0.0	0.0	2.1
39°	2.1	2.1	0.0	0.0	0.0	2.1
40°	2.1	2.1	0.0	0.0	0.0	2.1
42.5°	0.0	2.1	0.0	0.0	2.1	4.1
45°	0.0	2.1	0.0	0.0	2.1	4.1
47.5°	0.0	2.1	0.0	0.0	4.1	4.1
50°	0.0	2.1	2.1	2.1	4.1	6.2
52.5°	0.0	4.1	2.1	4.1	6.2	8.3
55°	2.1	4.1	4.1	6.2	8.3	10.3
57.5°	2.1	6.2	6.2	8.3	10.3	10.3
60°	4.1	6.2	8.3	8.3	12.4	12.4
62.5°	4.1	8.3	8.3	8.3	12.4	12.4
65°	4.1	8.3	8.3	10.3	12.4	12.4
67.5°	4.1	8.3	8.3	8.3	10.3	12.4
70°	4.1	8.3	6.2	8.3	10.3	10.3
72.5°	4.1	8.3	6.2	6.2	8.3	10.3
75°	4.1	8.3	6.2	6.2	8.3	8.3
77.5°	4.1	6.2	6.2	4.1	6.2	6.2
80°	4.1	6.2	4.1	4.1	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	4.1	6.2	4.1	2.1	4.1	4.1
85°	4.1	6.2	4.1	2.1	2.1	2.1
87.5°	4.1	6.2	2.1	0.0	0.0	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)