

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: P1311877

Luminaire Tested: LDSQA3D24R159040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311877
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: LDSQA3D24R159040D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

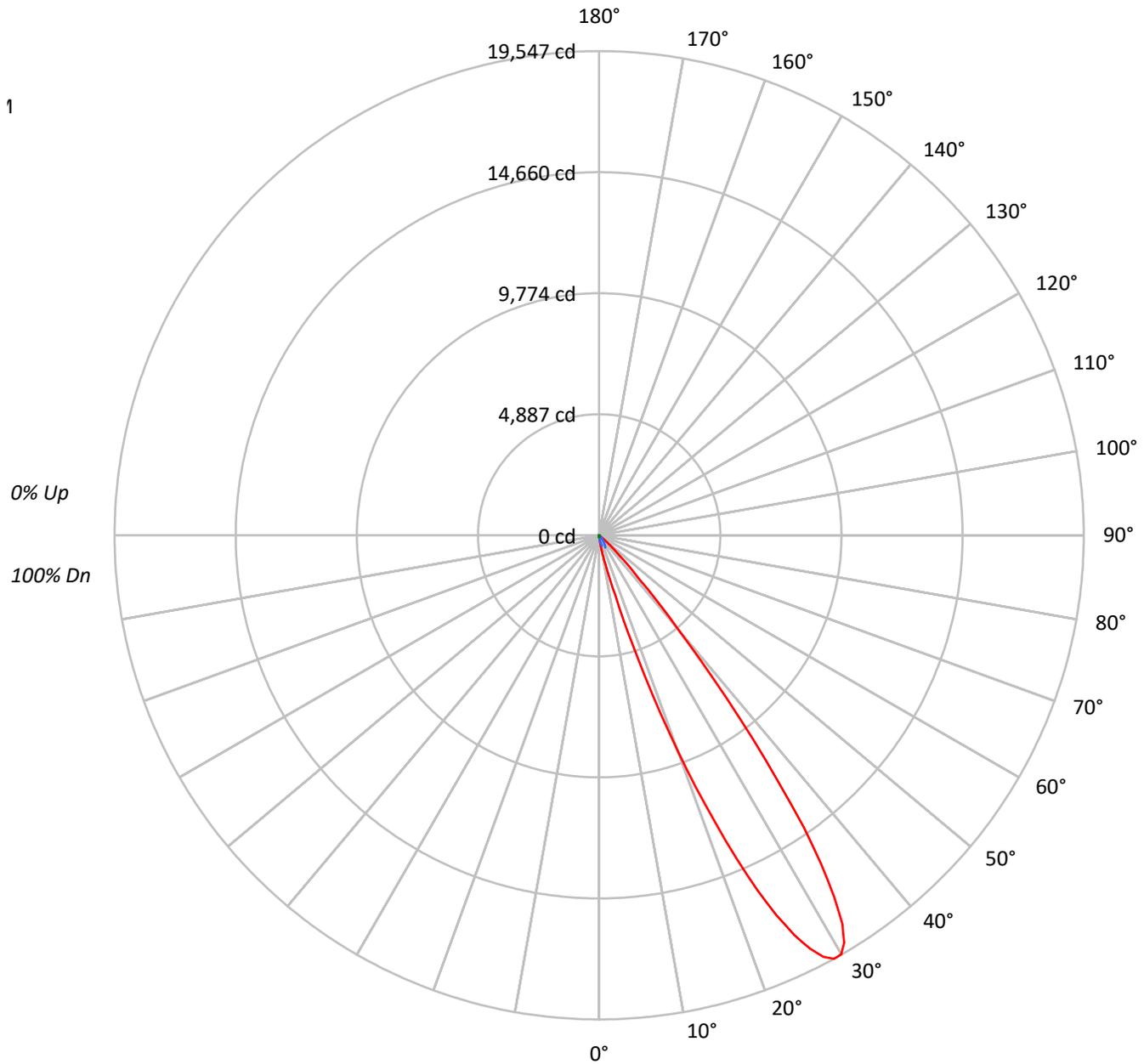
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.1 lumens
Efficiency: N/A
Efficacy: 74.1 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_{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	
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				
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92				
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68				
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61				
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55				
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45				
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41				
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12159	12159	12159	12159	12159
5°	26209	19380	11497	6103	5031
10°	116225	36690	9076	2536	1819
15°	439540	84799	6294	1105	749
20°	1690368	119514	3812	385	385
25°	3214434	112078	1976	0	0
30°	3883089	90444	835	0	0
35°	3028538	61560	442	0	0
40°	1105174	30351	472	0	472
45°	283771	9109	511	0	1023
50°	47852	1125	563	563	1661
55°	6245	0	1261	1862	3123
60°	723	723	2136	2859	4306
65°	856	856	3382	4238	5094
70°	1057	1057	4179	4179	5237
75°	1397	1397	5523	4126	5523
80°	0	2083	6149	4166	6149
85°	0	4150	12251	4150	4150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 283771 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.5
10°-20°	163.6	7.7
20°-30°	907.4	42.5
30°-40°	876.6	41.1
40°-50°	152.5	7.1
50°-60°	11.0	0.5
60°-70°	6.5	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°	1080.7	50.6
0°-40°	1957.3	91.7
0°-60°	2120.7	99.3
0°-90°	2135.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	152	112	66	35	29	30
15°	2465	476	35	6	4	1098
25°	16916	590	10	0	0	7563
35°	14405	293	2	0	0	8284
45°	1165	37	2	0	4	1251
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°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
2.5°	103.8	99.7	101.8	101.8	101.8	101.8	101.8	97.6	97.6	99.7	89.3
5°	151.6	151.6	149.5	151.6	151.6	149.5	145.4	143.3	143.3	139.1	112.1
7.5°	303.2	299.1	299.1	294.9	274.1	267.9	263.8	253.4	234.7	230.5	145.4
10°	664.6	666.7	652.1	633.4	631.4	600.2	589.8	571.1	535.8	500.5	209.8
12.5°	1206.6	1179.6	1144.3	1146.4	1086.2	1065.4	1017.6	965.7	911.7	855.6	344.8
15°	2465.2	2388.3	2434.0	2321.9	2195.2	2051.9	1906.5	1723.8	1568.0	1401.9	475.6
17.5°	5192.0	5266.8	5140.1	4660.4	4365.5	4018.6	3530.6	3059.2	2656.3	2332.3	581.5
20°	9223.1	9333.2	8903.3	8485.9	7769.4	6988.5	6174.4	5252.3	4369.6	3605.4	652.1
21°	10907.4	10841.0	10664.5	9995.7	9169.2	8263.7	7266.8	6249.1	5179.6	4186.9	658.4
22°	12535.7	12566.8	12155.6	11455.7	10595.9	9592.8	8375.8	7119.3	5966.7	4660.4	648.0
23°	14157.7	14257.4	13713.2	13057.0	11974.9	10843.1	9435.0	8078.8	6654.1	5202.4	627.2
24°	15659.2	15590.7	15223.1	14396.5	13239.7	11914.7	10452.6	8807.8	7219.0	5665.6	610.6
25°	16915.7	16907.4	16330.0	15526.3	14203.4	12735.0	11123.4	9403.8	7702.9	5979.2	589.8
26°	17943.7	17775.5	17320.7	16340.4	15034.1	13484.8	11673.8	9837.9	7975.0	6137.0	569.0
27°	18737.1	18616.6	18006.0	16986.3	15621.8	13908.5	12026.9	10053.9	8099.6	6188.9	542.0
28°	19270.8	19140.0	18489.9	17439.0	15945.8	14174.3	12213.8	10145.3	8099.6	6139.1	517.1
29°	19547.0	19368.4	18720.4	17594.8	16020.6	14205.4	12168.1	10056.0	7972.9	5985.4	488.1
30°	19526.2	19304.0	18624.9	17453.6	15798.4	13950.0	11912.6	9734.0	7686.3	5756.9	454.8
31°	19189.8	18940.6	18182.5	16975.9	15339.4	13468.2	11430.8	9302.1	7293.8	5460.0	421.6
32°	18506.5	18190.9	17451.5	16249.0	14633.3	12747.5	10730.9	8635.4	6706.0	5025.9	386.3
33°	17393.4	17075.6	16282.3	15154.5	13677.9	11833.7	9802.6	7918.9	6037.3	4508.8	357.2
34°	15999.8	15709.1	15025.8	13889.8	12473.4	10676.9	8735.1	6928.3	5343.7	3995.8	326.1
35°	14404.8	13941.7	13322.8	12423.5	11042.4	9235.6	7582.5	6006.2	4629.2	3457.9	292.8
36°	12247.0	12330.1	11673.8	10573.1	9428.8	8012.4	6425.7	5007.2	3871.2	2947.0	263.8
37°	10334.2	10203.4	9786.0	8934.5	7937.6	6531.6	5385.2	4245.0	3256.5	2492.2	232.6
38°	8336.3	8365.4	7956.3	7302.1	6313.5	5370.7	4334.3	3487.0	2724.8	2120.4	203.5
39°	6525.4	6502.5	6392.4	5786.0	4890.9	4272.0	3511.9	2890.9	2270.0	1788.1	172.4
40°	4915.8	4953.2	4695.7	4330.2	3808.9	3300.1	2797.5	2305.3	1877.4	1507.8	135.0
42.5°	2390.4	2448.6	2278.3	2184.8	1954.3	1754.9	1480.8	1208.7	1028.0	888.9	60.2
45°	1165.1	1131.9	1117.3	1071.6	1017.6	909.6	805.8	691.6	604.4	521.3	37.4
47.5°	596.0	579.4	579.4	560.7	542.0	506.7	454.8	417.4	375.9	324.0	14.5
50°	178.6	176.5	174.5	176.5	170.3	176.5	180.7	182.8	166.1	164.1	4.2
52.5°	70.6	72.7	70.6	76.8	76.8	74.8	76.8	74.8	72.7	64.4	0.0
55°	20.8	20.8	20.8	20.8	20.8	20.8	22.8	24.9	22.8	24.9	0.0
57.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	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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CATALOG NUMBER: LDSQA3D24R159040D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	70.6	70.6	70.6	70.6	70.6	70.6
2.5°	83.1	72.7	60.2	49.8	45.7	43.6
5°	89.3	66.5	45.7	35.3	31.2	29.1
7.5°	95.5	60.2	35.3	24.9	18.7	16.6
10°	99.7	51.9	27.0	14.5	10.4	10.4
12.5°	99.7	41.5	18.7	8.3	6.2	6.2
15°	97.6	35.3	12.5	6.2	4.2	4.2
17.5°	95.5	27.0	8.3	4.2	2.1	4.2
20°	89.3	20.8	4.2	2.1	2.1	2.1
21°	87.2	18.7	4.2	2.1	2.1	2.1
22°	83.1	16.6	2.1	0.0	2.1	2.1
23°	78.9	12.5	2.1	0.0	0.0	0.0
24°	72.7	10.4	2.1	0.0	0.0	0.0
25°	68.5	10.4	2.1	0.0	0.0	0.0
26°	64.4	6.2	0.0	0.0	0.0	0.0
27°	58.2	4.2	0.0	0.0	0.0	0.0
28°	54.0	4.2	0.0	0.0	0.0	0.0
29°	47.8	4.2	0.0	0.0	0.0	0.0
30°	41.5	4.2	0.0	0.0	0.0	0.0
31°	33.2	2.1	0.0	0.0	0.0	0.0
32°	27.0	2.1	0.0	0.0	0.0	0.0
33°	18.7	2.1	0.0	0.0	0.0	0.0
34°	12.5	2.1	0.0	0.0	0.0	0.0
35°	10.4	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°	4.2	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	4.2
45°	0.0	2.1	0.0	0.0	2.1	4.2
47.5°	0.0	2.1	0.0	0.0	4.2	4.2
50°	0.0	2.1	2.1	2.1	4.2	6.2
52.5°	0.0	4.2	2.1	4.2	6.2	8.3
55°	2.1	4.2	4.2	6.2	8.3	10.4
57.5°	2.1	6.2	6.2	8.3	10.4	10.4
60°	4.2	6.2	8.3	8.3	12.5	12.5
62.5°	4.2	8.3	8.3	8.3	12.5	12.5
65°	4.2	8.3	8.3	10.4	12.5	12.5
67.5°	4.2	8.3	8.3	8.3	10.4	12.5
70°	4.2	8.3	6.2	8.3	10.4	10.4
72.5°	4.2	8.3	6.2	6.2	8.3	10.4
75°	4.2	8.3	6.2	6.2	8.3	8.3
77.5°	4.2	6.2	6.2	4.2	6.2	6.2
80°	4.2	6.2	4.2	4.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	4.2	6.2	4.2	2.1	4.2	4.2
85°	4.2	6.2	4.2	2.1	2.1	2.1
87.5°	4.2	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)