

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: P1309656

Luminaire Tested: LDSQA3D24R209030D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D24R209030D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

Summary

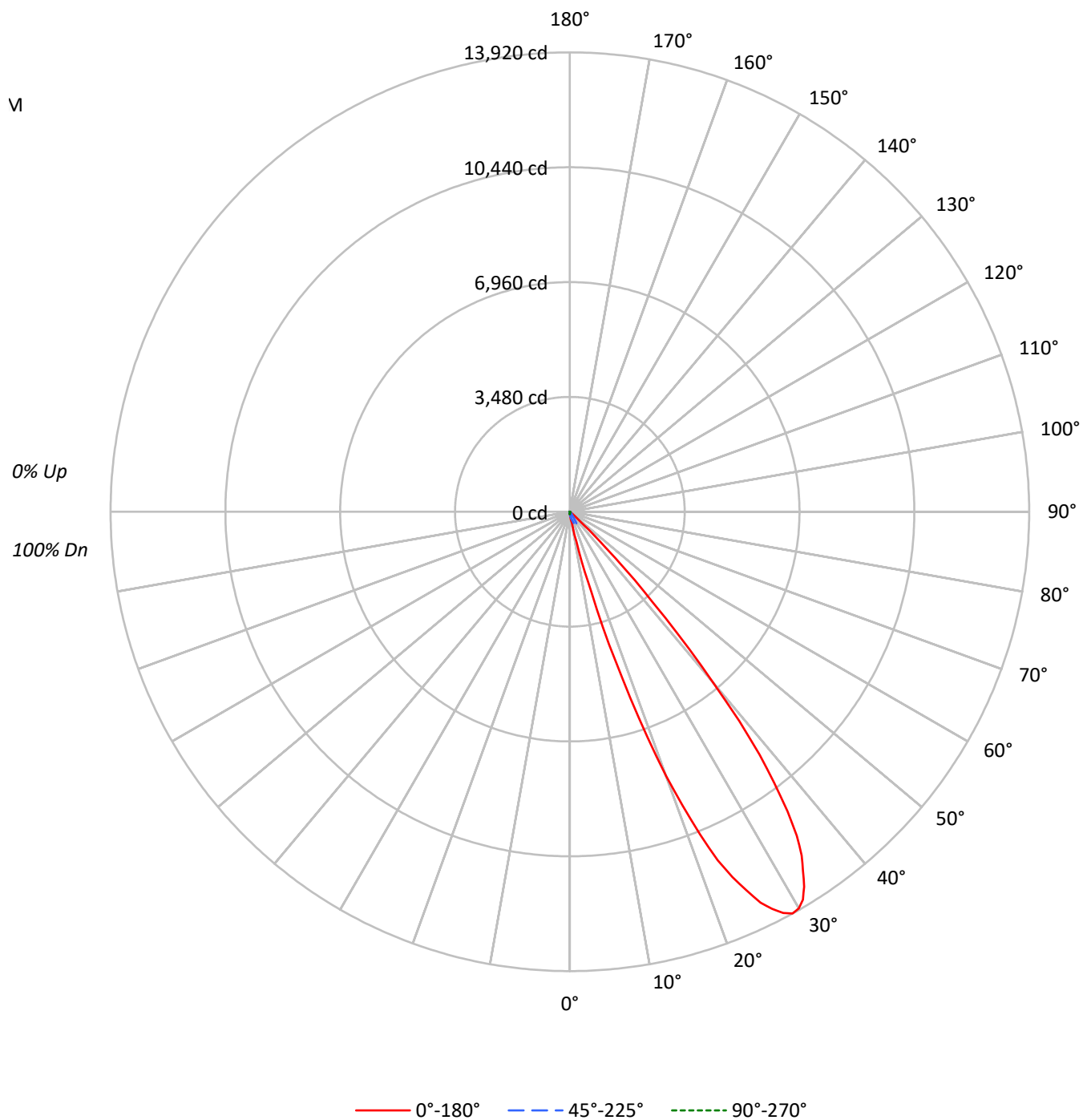
Lumens per Lamp: N/A
Luminaire Lumens: 1921.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1309656

CATALOG NUMBER: LDSQA3D24R209030D010 3LSQCA30R 1MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1309656

CATALOG NUMBER: LDSQA3D24R209030D010 3LSQCA30R 1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	63	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	57	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	46	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11849	11849	11849	11849	11849
5°	25759	18170	10891	4962	3630
10°	64146	32073	7677	997	0
15°	451344	43950	4422	0	0
20°	1559913	73878	1759	0	0
25°	2404464	94386	722	0	0
30°	2759837	72944	0	0	0
35°	2520501	27710	0	0	0
40°	1511042	12882	0	0	0
45°	371331	6040	0	0	0
50°	40940	1527	0	0	0
55°	5735	0	570	0	0
60°	0	0	1309	0	0
65°	0	0	1549	0	0
70°	0	957	2870	0	0
75°	0	1264	3793	0	0
80°	0	1884	5653	0	0
85°	0	3754	11263	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 395979 cd/sqm

TEST NUMBER: P1309656

CATALOG NUMBER: LDSQA3D24R209030D010 3LSQCA30R 1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.4
10°-20°	150.0	7.8
20°-30°	758.9	39.5
30°-40°	821.0	42.7
40°-50°	173.4	9.0
50°-60°	5.2	0.3
60°-70°	1.2	0.1
70°-80°	1.8	0.1
80°-90°	1.6	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°	916.7	47.7
0°-40°	1737.8	90.5
0°-60°	1916.4	99.8
0°-90°	1921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1921.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	149	105	63	29	21	21
15°	2531	246	25	0	0	1055
25°	12653	497	4	0	0	5719
35°	11988	132	0	0	0	7069
45°	1525	25	0	0	0	1677
55°	19	0	2	0	0	34
65°	0	0	4	0	0	0
75°	0	2	6	0	0	0
85°	0	2	6	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1309656

CATALOG NUMBER: LDSQA3D24R209030D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
2.5°	93.6	91.7	93.6	91.7	93.6	93.6	93.6	91.7	91.7	91.7	91.7
5°	149.0	149.0	147.1	149.0	149.0	149.0	149.0	147.1	147.1	145.2	145.2
7.5°	235.0	235.0	233.1	233.1	235.0	236.9	229.3	233.1	233.1	233.1	231.2
10°	366.8	374.5	366.8	376.4	368.7	363.0	372.5	363.0	363.0	361.1	355.4
12.5°	924.7	903.7	890.3	857.8	890.3	865.5	871.2	865.5	846.4	821.5	806.2
15°	2531.4	2531.4	2456.9	2556.3	2483.7	2510.4	2372.8	2374.8	2304.1	2227.6	2185.6
17.5°	5292.1	5339.9	5290.2	5259.6	5194.7	5101.0	5062.8	4965.4	4837.4	4688.4	4671.2
20°	8511.3	8310.7	8404.3	8318.3	8264.8	8150.2	8022.2	7942.0	7829.2	7640.1	7361.2
21°	9523.9	9516.2	9514.3	9512.4	9434.1	9246.8	9130.3	8969.8	8811.2	8616.4	8383.3
22°	10544.1	10580.4	10595.6	10484.8	10324.4	10240.3	10160.0	9940.3	9690.1	9588.8	9311.8
23°	11480.2	11445.8	11346.5	11294.9	11170.7	11145.9	10907.1	10767.6	10523.0	10412.2	10083.6
24°	12118.3	12101.1	12055.3	11978.8	11879.5	11726.7	11583.4	11363.7	11163.1	10981.6	10675.9
25°	12653.3	12668.5	12584.5	12532.9	12425.9	12254.0	12078.2	11837.5	11650.2	11438.2	11084.7
26°	13182.5	13075.5	13008.6	12932.2	12815.6	12618.9	12448.8	12232.9	12005.6	11768.7	11422.9
27°	13509.2	13413.6	13312.4	13237.9	13104.1	12916.9	12735.4	12496.6	12242.5	12003.7	11648.3
28°	13767.1	13662.0	13562.7	13472.9	13320.0	13119.4	12901.6	12659.0	12395.3	12148.9	11785.9
29°	13919.9	13795.7	13688.7	13587.5	13448.0	13230.2	13010.5	12750.7	12496.6	12238.7	11868.0
30°	13877.9	13770.9	13667.7	13564.6	13423.2	13218.8	13001.0	12752.6	12496.6	12242.5	11866.1
31°	13713.6	13581.8	13507.2	13404.1	13281.8	13073.6	12886.3	12615.0	12383.9	12108.8	11732.4
32°	13398.4	13314.3	13214.9	13134.7	13016.3	12794.6	12611.2	12389.6	12116.4	11891.0	11495.5
33°	12970.4	12892.1	12842.4	12748.8	12634.2	12481.3	12261.6	12059.1	11751.5	11520.3	11124.9
34°	12561.6	12462.2	12338.0	12311.3	12211.9	12015.1	11816.5	11610.1	11335.0	11040.8	10641.5
35°	11988.4	11885.2	11770.6	11780.2	11661.7	11432.4	11229.9	10998.8	10737.0	10391.2	10012.9
36°	11222.3	11153.5	11136.3	11090.5	10954.8	10681.6	10488.7	10198.3	9978.6	9556.3	9231.5
37°	10288.1	10312.9	10188.7	10129.5	9970.9	9779.9	9671.0	9298.4	9042.4	8725.3	8285.8
38°	9344.3	9308.0	9160.9	9197.2	8979.4	8780.7	8473.1	8251.5	7964.9	7670.7	7319.1
39°	8165.5	8075.7	7899.9	7907.6	7743.3	7519.7	7221.7	6960.0	6788.0	6505.3	6169.0
40°	6721.1	6682.9	6621.8	6520.5	6304.7	6207.2	5941.7	5658.9	5513.7	5122.1	4957.8
42.5°	3729.3	3677.7	3574.5	3538.2	3423.6	3309.0	3154.2	2965.1	2873.4	2756.9	2497.0
45°	1524.6	1625.8	1601.0	1572.3	1484.5	1490.2	1379.4	1392.8	1291.5	1222.7	1175.0
47.5°	336.2	364.9	366.8	353.4	366.8	355.4	349.6	340.1	342.0	347.7	334.3
50°	152.8	150.9	154.8	152.8	150.9	149.0	147.1	141.4	145.2	141.4	137.6
52.5°	59.2	61.1	61.1	57.3	59.2	59.2	59.2	57.3	57.3	57.3	57.3
55°	19.1	19.1	19.1	17.2	17.2	19.1	19.1	19.1	19.1	19.1	17.2
57.5°	1.9	3.8	1.9	3.8	1.9	1.9	1.9	1.9	1.9	3.8	3.8
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



TEST NUMBER: P1309656

CATALOG NUMBER: LDSQA3D24R209030D010 3LSQCA30R 1MMS

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

TEST NUMBER: P1309656

CATALOG NUMBER: LDSQA3D24R209030D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
2.5°	87.9	80.2	74.5	68.8	57.3	47.8	43.9	43.9
5°	135.6	105.1	78.3	63.0	43.9	28.7	22.9	21.0
7.5°	204.4	141.4	82.2	53.5	28.7	15.3	9.6	7.6
10°	296.1	183.4	86.0	43.9	17.2	5.7	0.0	0.0
12.5°	517.7	219.7	86.0	34.4	7.6	0.0	0.0	0.0
15°	1186.4	246.5	82.2	24.8	1.9	0.0	0.0	0.0
17.5°	2464.5	309.5	72.6	17.2	0.0	0.0	0.0	0.0
20°	3935.6	403.1	57.3	9.6	0.0	0.0	0.0	0.0
21°	4541.3	435.6	51.6	7.6	0.0	0.0	0.0	0.0
22°	4976.9	466.2	45.9	5.7	0.0	0.0	0.0	0.0
23°	5456.4	485.3	40.1	3.8	0.0	0.0	0.0	0.0
24°	5809.8	496.7	34.4	3.8	0.0	0.0	0.0	0.0
25°	6029.5	496.7	30.6	3.8	0.0	0.0	0.0	0.0
26°	6159.5	485.3	26.7	1.9	0.0	0.0	0.0	0.0
27°	6190.0	466.2	22.9	1.9	0.0	0.0	0.0	0.0
28°	6151.8	441.3	19.1	0.0	0.0	0.0	0.0	0.0
29°	6031.5	405.0	17.2	0.0	0.0	0.0	0.0	0.0
30°	5901.5	366.8	13.4	0.0	0.0	0.0	0.0	0.0
31°	5679.9	315.2	11.5	0.0	0.0	0.0	0.0	0.0
32°	5423.9	261.7	9.6	0.0	0.0	0.0	0.0	0.0
33°	5081.9	206.3	7.6	0.0	0.0	0.0	0.0	0.0
34°	4577.6	162.4	7.6	0.0	0.0	0.0	0.0	0.0
35°	4124.8	131.8	5.7	0.0	0.0	0.0	0.0	0.0
36°	3532.5	105.1	5.7	0.0	0.0	0.0	0.0	0.0
37°	3026.2	87.9	5.7	0.0	0.0	0.0	0.0	0.0
38°	2533.3	74.5	3.8	0.0	0.0	0.0	0.0	0.0
39°	2055.7	65.0	3.8	0.0	0.0	0.0	0.0	0.0
40°	1639.2	57.3	3.8	0.0	0.0	0.0	0.0	0.0
42.5°	884.6	38.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	489.1	24.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	215.9	13.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	72.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	17.2	0.0	0.0	1.9	0.0	0.0	0.0	0.0
57.5°	3.8	0.0	0.0	1.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.9	3.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.9	3.8	1.9	0.0	0.0	0.0
65°	0.0	0.0	3.8	3.8	1.9	0.0	0.0	0.0
67.5°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
70°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
72.5°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
75°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
77.5°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
80°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0



TEST NUMBER: P1309656

CATALOG NUMBER: LDSQA3D24R209030D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
85°	0.0	1.9	3.8	5.7	1.9	0.0	0.0	0.0
87.5°	0.0	1.9	3.8	5.7	1.9	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)