

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: P1310612

Luminaire Tested: LDSQA3D20R159035D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310612
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: LDSQA3D20R159035D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

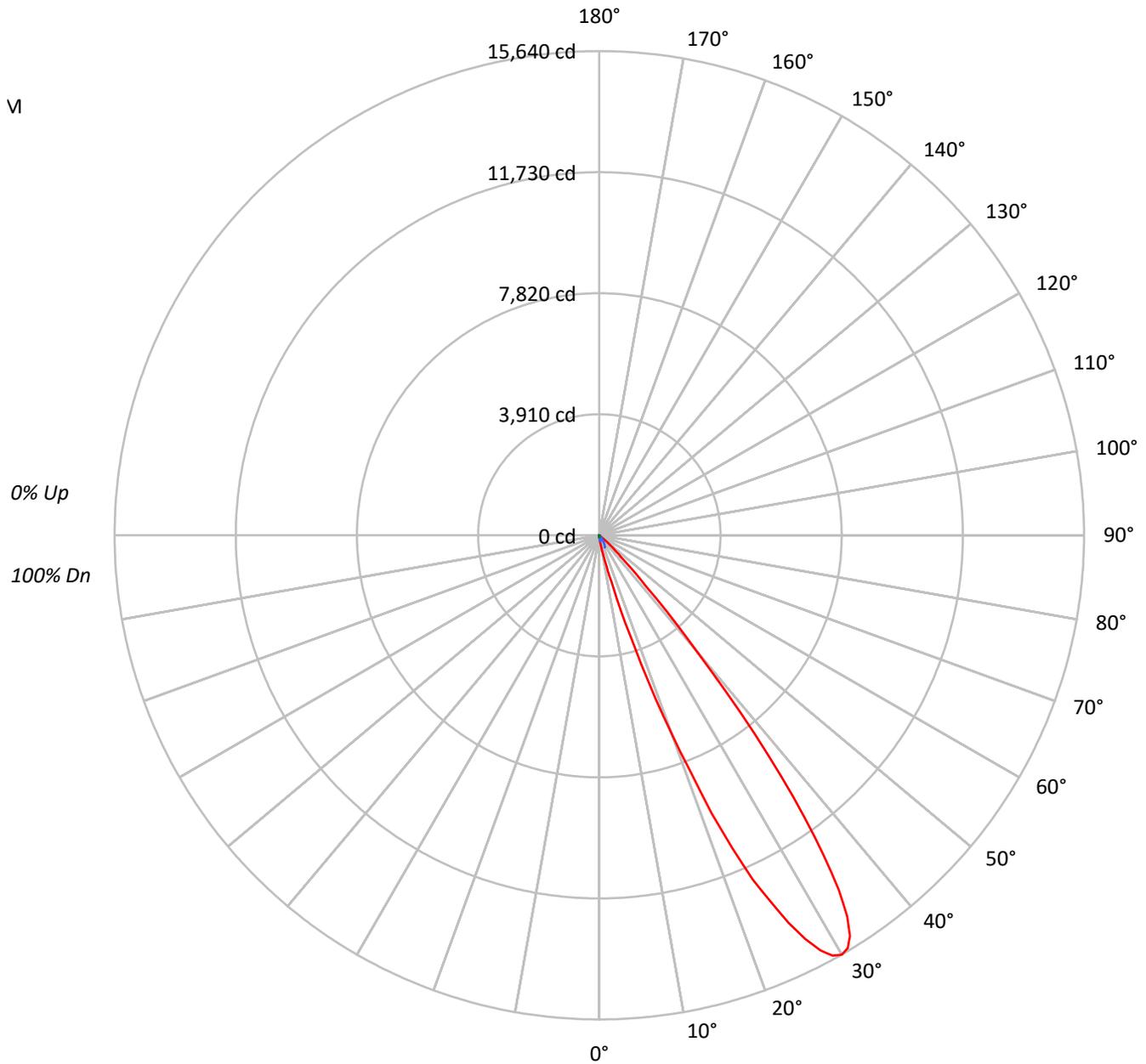
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1654.0 lumens
Efficiency: N/A
Efficacy: 57.4 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_{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

TEST NUMBER: P1310612
CATALOG NUMBER: LDSQA3D20R159035D010 3LSQCA30R 1MMS

Luminous Intensity Polar Plot



VI

0% Up

100% Dn

— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P1310612

CATALOG NUMBER: LDSQA3D20R159035D010 3LSQCA30R 1MMS

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	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	94	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	68	64	72	67	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10178	10178	10178	10178	10178
5°	29459	22250	8713	3613	2403
10°	76650	33157	5771	0	0
15°	306387	54274	3102	0	0
20°	1251790	80018	953	0	0
25°	2474508	79317	0	0	0
30°	3110158	62603	0	0	0
35°	2653692	38391	0	0	0
40°	1092516	12118	0	0	0
45°	236375	5090	0	0	0
50°	30303	0	0	0	0
55°	2612	0	510	0	0
60°	0	0	1206	0	0
65°	0	0	1426	0	0
70°	0	856	2618	0	0
75°	0	1131	3460	0	0
80°	0	1686	5157	0	0
85°	0	3359	10275	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 247383 cd/sqm



TEST NUMBER: P1310612

CATALOG NUMBER: LDSQA3D20R159035D010 3LSQCA30R 1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	0.5
10°-20°	115.9	7.0
20°-30°	675.6	40.8
30°-40°	724.4	43.8
40°-50°	122.3	7.4
50°-60°	3.7	0.2
60°-70°	1.1	0.1
70°-80°	1.6	0.1
80°-90°	1.4	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°	799.5	48.3
0°-40°	1523.9	92.1
0°-60°	1649.9	99.8
0°-90°	1654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1654.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	170	129	50	21	14	23
15°	1718	304	17	0	0	795
25°	13022	417	0	0	0	5892
35°	12622	183	0	0	0	7254
45°	970	21	0	0	0	1146
55°	9	0	2	0	0	22
65°	0	0	4	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1310612

CATALOG NUMBER: LDSQA3D20R159035D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	107.8	109.6	111.3	111.3	111.3	111.3	109.6	109.6	109.6	109.6	107.8
5°	170.4	170.4	170.4	170.4	170.4	170.4	168.7	168.7	168.7	168.7	168.7
7.5°	243.5	240.0	241.8	236.5	240.0	238.3	236.5	240.0	240.0	231.3	231.3
10°	438.3	436.6	419.2	422.6	426.1	424.4	424.4	413.9	412.2	405.3	398.3
12.5°	845.3	864.4	878.3	878.3	845.3	857.5	834.8	840.1	843.5	833.1	796.6
15°	1718.4	1749.7	1716.7	1748.0	1735.8	1690.6	1640.1	1572.3	1598.4	1551.4	1535.8
17.5°	3763.8	3835.1	3805.5	3661.2	3708.1	3596.8	3527.2	3501.2	3428.1	3210.7	3120.3
20°	6830.1	6917.1	6835.3	6666.6	6720.5	6510.1	6456.2	6405.7	6082.2	5964.0	5584.8
21°	8120.7	8192.0	8223.3	8047.6	7939.8	7772.8	7633.7	7588.4	7391.9	7164.1	6774.5
22°	9679.0	9595.6	9407.7	9432.1	9272.1	9134.6	8941.6	8759.0	8539.8	8221.5	7899.8
23°	10969.6	10872.2	10783.5	10675.6	10503.5	10406.1	10129.5	9929.5	9644.3	9303.4	8993.8
24°	12171.4	12021.8	11966.2	11774.9	11726.2	11507.0	11282.6	11021.8	10677.4	10313.9	9971.2
25°	13021.9	13044.5	12995.8	12973.2	12724.5	12500.1	12277.5	11875.7	11581.8	11260.0	10733.0
26°	13933.3	13943.7	13919.4	13752.4	13528.0	13308.9	13021.9	12672.3	12246.2	11889.7	11413.1
27°	14630.7	14589.0	14554.2	14355.9	14171.6	13895.0	13634.1	13220.2	12804.5	12380.1	11827.0
28°	15187.3	15109.0	15065.6	14895.1	14679.4	14340.3	14020.3	13634.1	13218.5	12762.8	12164.5
29°	15523.0	15439.5	15390.8	15203.0	14954.2	14656.8	14333.3	13908.9	13462.0	12954.1	12352.3
30°	15639.5	15590.8	15514.3	15319.5	15062.1	14752.5	14420.3	13959.4	13491.5	12971.5	12334.9
31°	15563.0	15500.4	15427.3	15216.9	14938.6	14642.9	14256.8	13773.3	13281.1	12785.4	12110.5
32°	15258.6	15220.4	15131.7	14849.9	14623.8	14241.1	13860.2	13408.0	12870.6	12338.4	11727.9
33°	14688.1	14625.5	14549.0	14291.6	14002.9	13635.9	13256.7	12794.1	12260.1	11698.3	11027.0
34°	13818.5	13738.5	13642.8	13470.7	13101.9	12783.6	12345.3	11804.4	11362.7	10823.5	10216.5
35°	12621.9	12505.4	12390.6	12260.1	11846.2	11552.2	11256.6	10785.2	10359.1	9851.2	9164.2
36°	11279.2	11233.9	11140.0	10795.7	10661.7	10261.7	10023.4	9482.5	9138.1	8640.7	8073.7
37°	9760.8	9494.7	9630.3	9437.3	9033.8	8908.5	8625.0	8160.7	7788.5	7263.2	6852.7
38°	8132.8	7958.9	8054.6	7859.8	7649.3	7360.6	7144.9	6805.8	6388.3	5976.1	5586.5
39°	6445.7	6304.9	6409.2	6277.0	5957.0	5837.0	5645.7	5386.5	5050.8	4729.1	4360.4
40°	4859.5	4678.6	4817.8	4629.9	4483.8	4287.3	4189.9	3951.6	3742.9	3549.9	3315.0
42.5°	2219.3	2200.2	2168.9	2101.0	2085.4	2087.1	1967.1	1888.8	1782.8	1659.3	1584.5
45°	970.5	994.9	1015.7	977.5	975.7	954.9	947.9	895.7	874.9	834.8	786.2
47.5°	478.3	487.0	481.8	492.2	483.5	469.6	466.1	459.2	438.3	436.6	413.9
50°	113.1	111.3	111.3	113.1	111.3	111.3	109.6	106.1	104.4	106.1	100.9
52.5°	36.5	38.3	36.5	34.8	36.5	38.3	36.5	36.5	36.5	36.5	36.5
55°	8.7	8.7	8.7	8.7	8.7	8.7	7.0	7.0	8.7	8.7	8.7
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



TEST NUMBER: P1310612

CATALOG NUMBER: LDSQA3D20R159035D010 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: P1310612

CATALOG NUMBER: LDSQA3D20R159035D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	106.1	90.4	74.8	59.1	43.5	34.8	33.0	31.3
5°	160.0	128.7	85.2	50.4	29.6	20.9	15.7	13.9
7.5°	215.7	160.0	93.9	41.7	20.9	8.7	3.5	1.7
10°	309.6	189.6	97.4	33.0	10.4	0.0	0.0	0.0
12.5°	607.0	217.4	95.7	26.1	1.7	0.0	0.0	0.0
15°	1008.8	304.4	88.7	17.4	0.0	0.0	0.0	0.0
17.5°	1652.3	393.1	76.5	12.2	0.0	0.0	0.0	0.0
20°	2561.9	436.6	59.1	5.2	0.0	0.0	0.0	0.0
21°	3003.7	440.0	52.2	3.5	0.0	0.0	0.0	0.0
22°	3386.4	440.0	45.2	1.7	0.0	0.0	0.0	0.0
23°	3741.2	434.8	40.0	0.0	0.0	0.0	0.0	0.0
24°	4033.4	427.9	36.5	0.0	0.0	0.0	0.0	0.0
25°	4252.5	417.4	33.0	0.0	0.0	0.0	0.0	0.0
26°	4353.4	403.5	27.8	0.0	0.0	0.0	0.0	0.0
27°	4403.8	384.4	24.3	0.0	0.0	0.0	0.0	0.0
28°	4369.0	363.5	20.9	0.0	0.0	0.0	0.0	0.0
29°	4282.1	340.9	15.7	0.0	0.0	0.0	0.0	0.0
30°	4169.0	314.8	12.2	0.0	0.0	0.0	0.0	0.0
31°	4003.8	288.7	8.7	0.0	0.0	0.0	0.0	0.0
32°	3777.7	262.6	7.0	0.0	0.0	0.0	0.0	0.0
33°	3475.1	234.8	3.5	0.0	0.0	0.0	0.0	0.0
34°	3101.1	207.0	1.7	0.0	0.0	0.0	0.0	0.0
35°	2682.0	182.6	0.0	0.0	0.0	0.0	0.0	0.0
36°	2321.9	156.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	1960.2	125.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	1641.9	99.1	0.0	0.0	0.0	0.0	0.0	0.0
39°	1358.4	80.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1125.3	53.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	622.7	36.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	377.4	20.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	219.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	83.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.7	3.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.7	3.5	1.7	0.0	0.0	0.0
65°	0.0	0.0	3.5	3.5	1.7	0.0	0.0	0.0
67.5°	0.0	0.0	3.5	5.2	1.7	0.0	0.0	0.0
70°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
72.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
75°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
77.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
80°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0



TEST NUMBER: P1310612

CATALOG NUMBER: LDSQA3D20R159035D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
85°	0.0	1.7	3.5	5.2	1.7	0.0	0.0	0.0
87.5°	0.0	1.7	3.5	5.2	1.7	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)