

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: P1308231

Luminaire Tested: LDSQA3D17R159027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308231
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: LDSQA3D17R159027DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

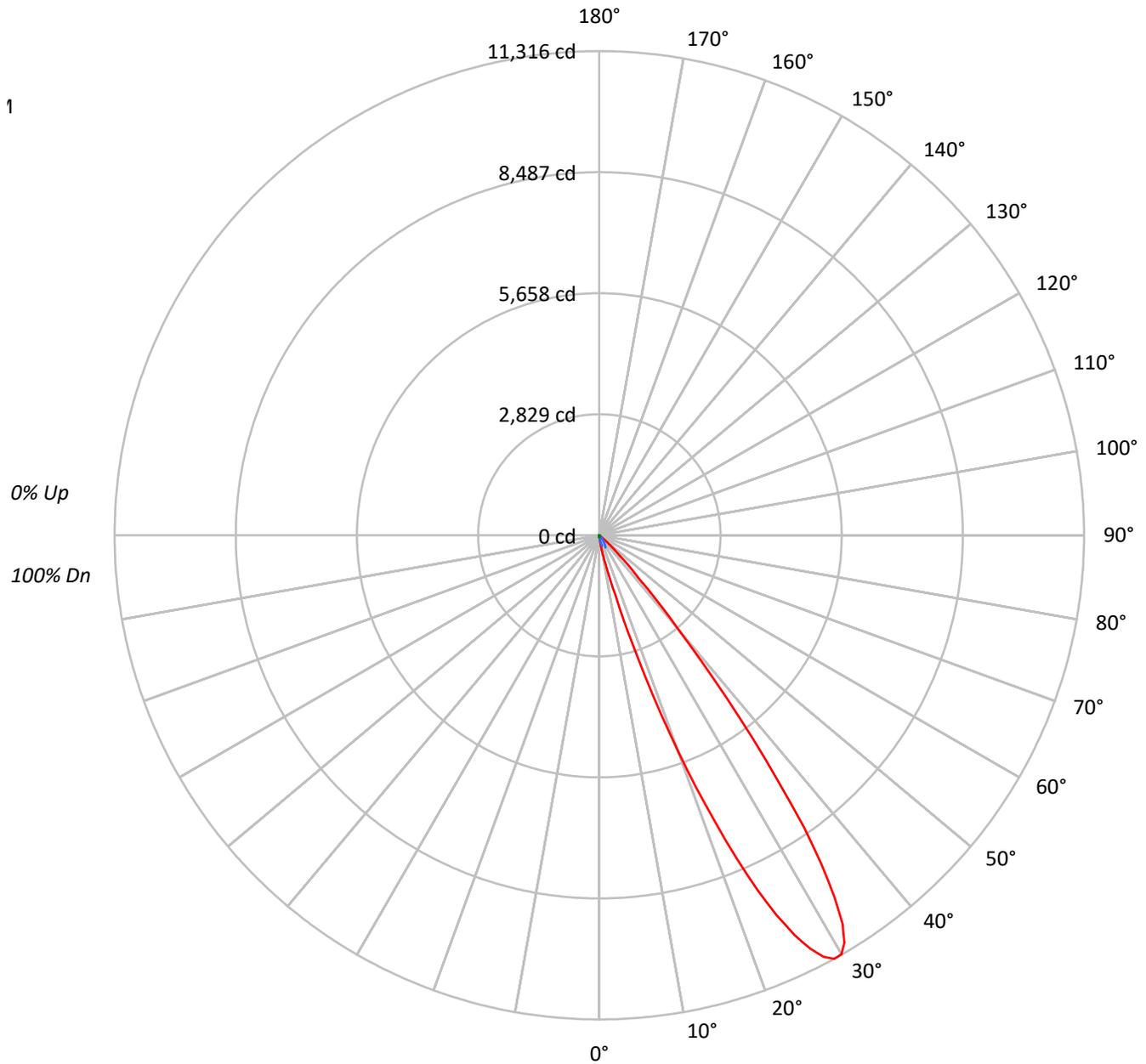
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1236.0 lumens
Efficiency: N/A
Efficacy: 58.3 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): 21.2
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: P1308231
CATALOG NUMBER: LDSQA3D17R159027DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P1308231

CATALOG NUMBER: LDSQA3D17R159027DE010 3LSQCA30R 1MW

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	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°	7044	7044	7044	7044	7044
5°	15179	11220	6656	3527	2904
10°	67276	21230	5264	1469	1049
15°	254467	49085	3637	642	428
20°	978600	69187	2199	220	220
25°	1860912	64894	1140	0	0
30°	2248016	52361	477	0	0
35°	1753296	35637	252	0	0
40°	639817	17581	270	0	270
45°	164281	5261	292	0	585
50°	27704	643	322	322	965
55°	3603	0	721	1081	1802
60°	413	413	1240	1653	2480
65°	489	489	1956	2445	2934
70°	604	604	2417	2417	3021
75°	799	799	3194	2396	3194
80°	0	1190	3570	2380	3570
85°	0	2371	7114	2371	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 164281 cd/sqm



TEST NUMBER: P1308231

CATALOG NUMBER: LDSQA3D17R159027DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.5
10°-20°	94.7	7.7
20°-30°	525.3	42.5
30°-40°	507.5	41.1
40°-50°	88.3	7.1
50°-60°	6.3	0.5
60°-70°	3.7	0.3
70°-80°	3.0	0.2
80°-90°	1.5	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°	625.6	50.6
0°-40°	1133.1	91.7
0°-60°	1227.7	99.3
0°-90°	1236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	41	41	41	41	41	
5°	88	65	38	20	17	17
15°	1427	275	20	4	2	636
25°	9793	342	6	0	0	4379
35°	8339	170	1	0	0	4796
45°	674	22	1	0	2	725
55°	12	0	2	4	6	23
65°	1	1	5	6	7	1
75°	1	1	5	4	5	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1308231

CATALOG NUMBER: LDSQA3D17R159027DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	60.1	57.7	58.9	58.9	58.9	58.9	58.9	56.5	56.5	57.7	51.7
5°	87.8	87.8	86.6	87.8	87.8	86.6	84.2	83.0	83.0	80.6	64.9
7.5°	175.5	173.1	173.1	170.7	158.7	155.1	152.7	146.7	135.9	133.5	84.2
10°	384.7	385.9	377.5	366.7	365.5	347.5	341.5	330.6	310.2	289.8	121.4
12.5°	698.5	682.9	662.5	663.7	628.8	616.8	589.1	559.1	527.8	495.4	199.6
15°	1427.2	1382.7	1409.1	1344.2	1270.8	1187.9	1103.7	997.9	907.7	811.6	275.3
17.5°	3005.8	3049.1	2975.7	2698.0	2527.3	2326.5	2043.9	1771.0	1537.8	1350.2	336.6
20°	5339.5	5403.2	5154.3	4912.7	4497.9	4045.8	3574.5	3040.7	2529.7	2087.2	377.5
21°	6314.6	6276.1	6173.9	5786.8	5308.2	4784.0	4206.9	3617.8	2998.6	2423.9	381.1
22°	7257.2	7275.2	7037.2	6632.0	6134.2	5553.5	4848.9	4121.5	3454.3	2698.0	375.1
23°	8196.2	8253.9	7938.9	7559.0	6932.6	6277.3	5462.1	4677.0	3852.2	3011.8	363.1
24°	9065.5	9025.8	8813.0	8334.5	7664.8	6897.7	6051.3	5099.0	4179.3	3279.9	353.5
25°	9792.9	9788.1	9453.8	8988.5	8222.6	7372.6	6439.6	5444.1	4459.4	3461.5	341.5
26°	10388.0	10290.6	10027.3	9459.8	8703.6	7806.6	6758.2	5695.4	4616.9	3552.8	329.4
27°	10847.3	10777.6	10424.1	9833.8	9043.8	8051.9	6962.6	5820.4	4689.0	3582.9	313.8
28°	11156.3	11080.6	10704.2	10095.9	9231.4	8205.8	7070.8	5873.3	4689.0	3554.0	299.4
29°	11316.2	11212.8	10837.7	10186.0	9274.7	8223.9	7044.4	5821.6	4615.7	3465.1	282.5
30°	11304.2	11175.5	10782.4	10104.3	9146.0	8076.0	6896.5	5635.3	4449.8	3332.8	263.3
31°	11109.4	10965.1	10526.3	9827.7	8880.3	7797.0	6617.6	5385.2	4222.5	3160.9	244.1
32°	10713.8	10531.1	10103.1	9406.9	8471.5	7379.8	6212.4	4999.2	3882.3	2909.6	223.6
33°	10069.4	9885.5	9426.2	8773.3	7918.5	6850.8	5674.9	4584.4	3495.1	2610.2	206.8
34°	9262.7	9094.3	8698.8	8041.1	7221.1	6181.1	5056.9	4010.9	3093.6	2313.3	188.8
35°	8339.3	8071.2	7712.9	7192.3	6392.7	5346.7	4389.7	3477.1	2680.0	2001.9	169.5
36°	7090.1	7138.2	6758.2	6121.0	5458.5	4638.5	3720.0	2898.8	2241.1	1706.1	152.7
37°	5982.7	5907.0	5665.3	5172.4	4595.3	3781.3	3117.6	2457.5	1885.2	1442.8	134.7
38°	4826.1	4842.9	4606.1	4227.3	3655.0	3109.2	2509.2	2018.7	1577.4	1227.6	117.8
39°	3777.7	3764.5	3700.7	3349.7	2831.5	2473.2	2033.1	1673.6	1314.1	1035.2	99.8
40°	2845.9	2867.5	2718.4	2506.8	2205.0	1910.5	1619.5	1334.6	1086.9	872.9	78.2
42.5°	1383.9	1417.5	1318.9	1264.8	1131.4	1016.0	857.3	699.7	595.1	514.6	34.9
45°	674.5	655.3	646.8	620.4	589.1	526.6	466.5	400.4	349.9	301.8	21.6
47.5°	345.1	335.4	335.4	324.6	313.8	293.4	263.3	241.7	217.6	187.6	8.4
50°	103.4	102.2	101.0	102.2	98.6	102.2	104.6	105.8	96.2	95.0	2.4
52.5°	40.9	42.1	40.9	44.5	44.5	43.3	44.5	43.3	42.1	37.3	0.0
55°	12.0	12.0	12.0	12.0	12.0	12.0	13.2	14.4	13.2	14.4	0.0
57.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2



TEST NUMBER: P1308231

CATALOG NUMBER: LDSQA3D17R159027DE010 3LSQCA30R 1MW

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	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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: P1308231

CATALOG NUMBER: LDSQA3D17R159027DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	40.9	40.9	40.9	40.9	40.9	40.9
2.5°	48.1	42.1	34.9	28.9	26.5	25.2
5°	51.7	38.5	26.5	20.4	18.0	16.8
7.5°	55.3	34.9	20.4	14.4	10.8	9.6
10°	57.7	30.1	15.6	8.4	6.0	6.0
12.5°	57.7	24.0	10.8	4.8	3.6	3.6
15°	56.5	20.4	7.2	3.6	2.4	2.4
17.5°	55.3	15.6	4.8	2.4	1.2	2.4
20°	51.7	12.0	2.4	1.2	1.2	1.2
21°	50.5	10.8	2.4	1.2	1.2	1.2
22°	48.1	9.6	1.2	0.0	1.2	1.2
23°	45.7	7.2	1.2	0.0	0.0	0.0
24°	42.1	6.0	1.2	0.0	0.0	0.0
25°	39.7	6.0	1.2	0.0	0.0	0.0
26°	37.3	3.6	0.0	0.0	0.0	0.0
27°	33.7	2.4	0.0	0.0	0.0	0.0
28°	31.3	2.4	0.0	0.0	0.0	0.0
29°	27.7	2.4	0.0	0.0	0.0	0.0
30°	24.0	2.4	0.0	0.0	0.0	0.0
31°	19.2	1.2	0.0	0.0	0.0	0.0
32°	15.6	1.2	0.0	0.0	0.0	0.0
33°	10.8	1.2	0.0	0.0	0.0	0.0
34°	7.2	1.2	0.0	0.0	0.0	0.0
35°	6.0	1.2	0.0	0.0	0.0	0.0
36°	3.6	1.2	0.0	0.0	0.0	1.2
37°	3.6	1.2	0.0	0.0	0.0	1.2
38°	2.4	1.2	0.0	0.0	0.0	1.2
39°	1.2	1.2	0.0	0.0	0.0	1.2
40°	1.2	1.2	0.0	0.0	0.0	1.2
42.5°	0.0	1.2	0.0	0.0	1.2	2.4
45°	0.0	1.2	0.0	0.0	1.2	2.4
47.5°	0.0	1.2	0.0	0.0	2.4	2.4
50°	0.0	1.2	1.2	1.2	2.4	3.6
52.5°	0.0	2.4	1.2	2.4	3.6	4.8
55°	1.2	2.4	2.4	3.6	4.8	6.0
57.5°	1.2	3.6	3.6	4.8	6.0	6.0
60°	2.4	3.6	4.8	4.8	7.2	7.2
62.5°	2.4	4.8	4.8	4.8	7.2	7.2
65°	2.4	4.8	4.8	6.0	7.2	7.2
67.5°	2.4	4.8	4.8	4.8	6.0	7.2
70°	2.4	4.8	3.6	4.8	6.0	6.0
72.5°	2.4	4.8	3.6	3.6	4.8	6.0
75°	2.4	4.8	3.6	3.6	4.8	4.8
77.5°	2.4	3.6	3.6	2.4	3.6	3.6
80°	2.4	3.6	2.4	2.4	3.6	3.6



TEST NUMBER: P1308231

CATALOG NUMBER: LDSQA3D17R159027DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.4	3.6	2.4	1.2	2.4	2.4
85°	2.4	3.6	2.4	1.2	1.2	1.2
87.5°	2.4	3.6	1.2	0.0	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)