

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: P1309349

Luminaire Tested: LDSQA3D17R159030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309349
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: LDSQA3D17R159030DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

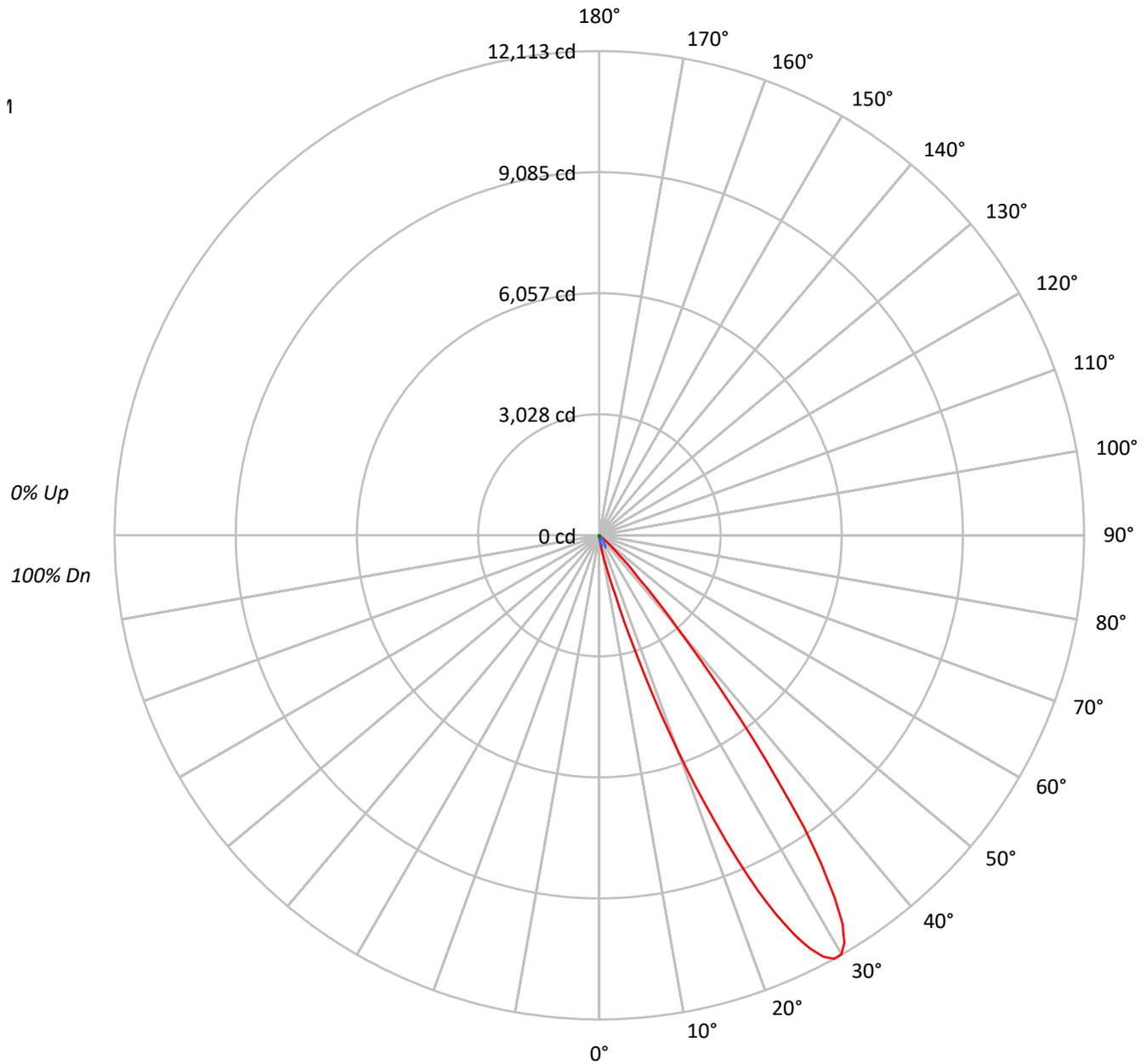
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1323.0 lumens
Efficiency: N/A
Efficacy: 62.4 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: P1309349
CATALOG NUMBER: LDSQA3D17R159030DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1309349

CATALOG NUMBER: LDSQA3D17R159030DE010 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7543	7543	7543	7543	7543
5°	16233	12015	7123	3786	3112
10°	72015	22734	5631	1574	1119
15°	272368	52544	3905	695	464
20°	1047475	74062	2364	238	238
25°	1991897	69455	1216	0	0
30°	2406254	56040	517	0	0
35°	1876710	38159	273	0	0
40°	684849	18817	292	0	292
45°	175850	5651	317	0	633
50°	29660	697	348	348	1045
55°	3873	0	781	1171	1922
60°	448	448	1343	1757	2652
65°	530	530	2078	2608	3138
70°	655	655	2568	2568	3223
75°	865	865	3394	2595	3394
80°	0	1289	3868	2579	3868
85°	0	2569	7707	2569	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 175850 cd/sqm



TEST NUMBER: P1309349

CATALOG NUMBER: LDSQA3D17R159030DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.5
10°-20°	101.4	7.7
20°-30°	562.3	42.5
30°-40°	543.2	41.1
40°-50°	94.5	7.1
50°-60°	6.8	0.5
60°-70°	4.0	0.3
70°-80°	3.3	0.2
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°	669.7	50.6
0°-40°	1212.9	91.7
0°-60°	1314.1	99.3
0°-90°	1323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1323.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	94	70	41	22	18	18
15°	1528	295	22	4	3	681
25°	10482	366	6	0	0	4687
35°	8926	182	1	0	0	5134
45°	722	23	1	0	3	776
55°	13	0	3	4	6	25
65°	1	1	5	6	8	1
75°	1	1	5	4	5	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1309349

CATALOG NUMBER: LDSQA3D17R159030DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
2.5°	64.3	61.8	63.1	63.1	63.1	63.1	63.1	60.5	60.5	61.8	55.3
5°	93.9	93.9	92.7	93.9	93.9	92.7	90.1	88.8	88.8	86.2	69.5
7.5°	187.9	185.3	185.3	182.7	169.9	166.0	163.4	157.0	145.4	142.9	90.1
10°	411.8	413.1	404.1	392.5	391.2	371.9	365.5	353.9	332.0	310.2	130.0
12.5°	747.7	731.0	709.1	710.4	673.1	660.2	630.6	598.4	565.0	530.2	213.6
15°	1527.6	1480.0	1508.3	1438.8	1360.3	1271.5	1181.4	1068.2	971.6	868.7	294.7
17.5°	3217.4	3263.7	3185.2	2887.9	2705.2	2490.2	2187.8	1895.7	1646.0	1445.2	360.3
20°	5715.3	5783.5	5517.1	5258.5	4814.5	4330.6	3826.1	3254.7	2707.7	2234.1	404.1
21°	6759.0	6717.9	6608.5	6194.1	5681.9	5120.8	4503.0	3872.4	3209.6	2594.5	408.0
22°	7768.0	7787.3	7532.5	7098.8	6566.0	5944.4	5190.3	4411.7	3697.4	2887.9	401.5
23°	8773.1	8834.9	8497.7	8091.0	7420.5	6719.1	5846.6	5006.2	4123.4	3223.8	388.7
24°	9703.6	9661.1	9433.3	8921.1	8204.3	7383.2	6477.2	5457.9	4473.4	3510.8	378.4
25°	10482.2	10477.0	10119.3	9621.2	8801.4	7891.6	6892.9	5827.3	4773.3	3705.1	365.5
26°	11119.2	11015.0	10733.1	10125.7	9316.2	8356.1	7233.9	6096.3	4941.9	3802.9	352.6
27°	11610.8	11536.2	11157.8	10525.9	9680.4	8618.7	7452.7	6230.1	5019.1	3835.1	335.9
28°	11941.6	11860.5	11457.7	10806.5	9881.2	8783.4	7568.5	6286.7	5019.1	3804.2	320.4
29°	12112.7	12002.1	11600.5	10903.0	9927.5	8802.7	7540.2	6231.4	4940.6	3709.0	302.4
30°	12099.9	11962.2	11541.3	10815.5	9789.8	8644.4	7381.9	6031.9	4763.0	3567.4	281.8
31°	11891.4	11737.0	11267.2	10519.5	9505.4	8345.8	7083.4	5764.2	4519.8	3383.4	261.3
32°	11468.0	11272.4	10814.2	10069.1	9067.8	7899.3	6649.7	5351.1	4155.5	3114.4	239.4
33°	10778.2	10581.3	10089.7	9390.8	8475.8	7333.0	6074.4	4907.1	3741.2	2794.0	221.4
34°	9914.6	9734.5	9311.1	8607.1	7729.4	6616.2	5412.9	4293.3	3311.3	2476.1	202.1
35°	8926.3	8639.3	8255.8	7698.5	6842.7	5723.1	4698.6	3721.8	2868.6	2142.8	181.5
36°	7589.1	7640.6	7233.9	6551.8	5842.7	4965.0	3981.8	3102.8	2398.9	1826.2	163.4
37°	6403.8	6322.8	6064.1	5536.4	4918.7	4047.4	3337.1	2630.5	2017.9	1544.3	144.1
38°	5165.8	5183.8	4930.3	4524.9	3912.3	3328.0	2685.9	2160.8	1688.5	1314.0	126.1
39°	4043.6	4029.4	3961.2	3585.4	3030.8	2647.2	2176.2	1791.4	1406.6	1108.1	106.8
40°	3046.2	3069.4	2909.8	2683.3	2360.3	2045.0	1733.5	1428.5	1163.4	934.3	83.7
42.5°	1481.3	1517.3	1411.8	1353.9	1211.0	1087.5	917.6	749.0	637.0	550.8	37.3
45°	722.0	701.4	692.4	664.1	630.6	563.7	499.3	428.6	374.5	323.0	23.2
47.5°	369.4	359.1	359.1	347.5	335.9	314.0	281.8	258.7	232.9	200.8	9.0
50°	110.7	109.4	108.1	109.4	105.5	109.4	112.0	113.3	103.0	101.7	2.6
52.5°	43.8	45.0	43.8	47.6	47.6	46.3	47.6	46.3	45.0	39.9	0.0
55°	12.9	12.9	12.9	12.9	12.9	12.9	14.2	15.4	14.2	15.4	0.0
57.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3



TEST NUMBER: P1309349

CATALOG NUMBER: LDSQA3D17R159030DE010 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	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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: P1309349

CATALOG NUMBER: LDSQA3D17R159030DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	43.8	43.8	43.8	43.8	43.8	43.8
2.5°	51.5	45.0	37.3	30.9	28.3	27.0
5°	55.3	41.2	28.3	21.9	19.3	18.0
7.5°	59.2	37.3	21.9	15.4	11.6	10.3
10°	61.8	32.2	16.7	9.0	6.4	6.4
12.5°	61.8	25.7	11.6	5.1	3.9	3.9
15°	60.5	21.9	7.7	3.9	2.6	2.6
17.5°	59.2	16.7	5.1	2.6	1.3	2.6
20°	55.3	12.9	2.6	1.3	1.3	1.3
21°	54.1	11.6	2.6	1.3	1.3	1.3
22°	51.5	10.3	1.3	0.0	1.3	1.3
23°	48.9	7.7	1.3	0.0	0.0	0.0
24°	45.0	6.4	1.3	0.0	0.0	0.0
25°	42.5	6.4	1.3	0.0	0.0	0.0
26°	39.9	3.9	0.0	0.0	0.0	0.0
27°	36.0	2.6	0.0	0.0	0.0	0.0
28°	33.5	2.6	0.0	0.0	0.0	0.0
29°	29.6	2.6	0.0	0.0	0.0	0.0
30°	25.7	2.6	0.0	0.0	0.0	0.0
31°	20.6	1.3	0.0	0.0	0.0	0.0
32°	16.7	1.3	0.0	0.0	0.0	0.0
33°	11.6	1.3	0.0	0.0	0.0	0.0
34°	7.7	1.3	0.0	0.0	0.0	0.0
35°	6.4	1.3	0.0	0.0	0.0	0.0
36°	3.9	1.3	0.0	0.0	0.0	1.3
37°	3.9	1.3	0.0	0.0	0.0	1.3
38°	2.6	1.3	0.0	0.0	0.0	1.3
39°	1.3	1.3	0.0	0.0	0.0	1.3
40°	1.3	1.3	0.0	0.0	0.0	1.3
42.5°	0.0	1.3	0.0	0.0	1.3	2.6
45°	0.0	1.3	0.0	0.0	1.3	2.6
47.5°	0.0	1.3	0.0	0.0	2.6	2.6
50°	0.0	1.3	1.3	1.3	2.6	3.9
52.5°	0.0	2.6	1.3	2.6	3.9	5.1
55°	1.3	2.6	2.6	3.9	5.1	6.4
57.5°	1.3	3.9	3.9	5.1	6.4	6.4
60°	2.6	3.9	5.1	5.1	7.7	7.7
62.5°	2.6	5.1	5.1	5.1	7.7	7.7
65°	2.6	5.1	5.1	6.4	7.7	7.7
67.5°	2.6	5.1	5.1	5.1	6.4	7.7
70°	2.6	5.1	3.9	5.1	6.4	6.4
72.5°	2.6	5.1	3.9	3.9	5.1	6.4
75°	2.6	5.1	3.9	3.9	5.1	5.1
77.5°	2.6	3.9	3.9	2.6	3.9	3.9
80°	2.6	3.9	2.6	2.6	3.9	3.9



TEST NUMBER: P1309349

CATALOG NUMBER: LDSQA3D17R159030DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.6	3.9	2.6	1.3	2.6	2.6
85°	2.6	3.9	2.6	1.3	1.3	1.3
87.5°	2.6	3.9	1.3	0.0	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)