

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: P1308523

Luminaire Tested: LDSQA3D24R159027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308523
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: LDSQA3D24R159027D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

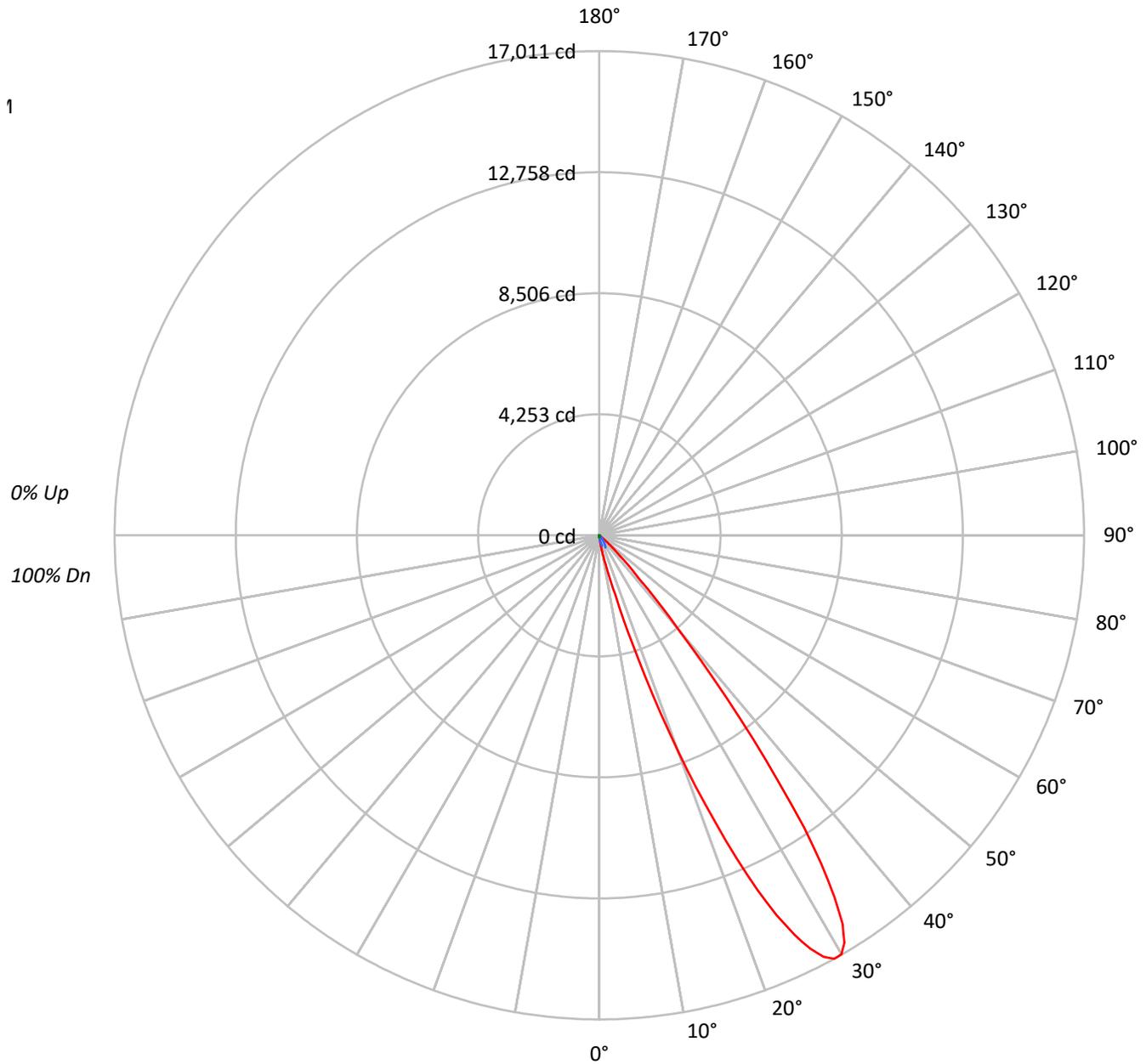
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1857.9 lumens
Efficiency: N/A
Efficacy: 64.5 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 (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: P1308523
CATALOG NUMBER: LDSQA3D24R159027D010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



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



TEST NUMBER: P1308523

CATALOG NUMBER: LDSQA3D24R159027D010 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
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68			68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61			61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41			41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10592	10592	10592	10592	10592
5°	22803	16873	9992	5307	4374
10°	101150	31916	7905	2221	1574
15°	382503	73798	5474	963	642
20°	1471061	104009	3317	330	330
25°	2797382	97541	1710	0	0
30°	3379303	78711	716	0	0
35°	2635611	53570	378	0	0
40°	961783	26416	405	0	405
45°	246945	7916	438	0	877
50°	41636	965	482	482	1447
55°	5435	0	1081	1621	2702
60°	620	620	1860	2480	3720
65°	734	734	2934	3668	4401
70°	906	906	3626	3626	4532
75°	1198	1198	4791	3593	4791
80°	0	1785	5356	3570	5356
85°	0	3557	10671	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 246945 cd/sqm



TEST NUMBER: P1308523

CATALOG NUMBER: LDSQA3D24R159027D010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	0.5
10°-20°	142.4	7.7
20°-30°	789.7	42.5
30°-40°	762.9	41.1
40°-50°	132.7	7.1
50°-60°	9.5	0.5
60°-70°	5.6	0.3
70°-80°	4.5	0.2
80°-90°	2.3	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°	940.4	50.6
0°-40°	1703.3	91.7
0°-60°	1845.5	99.3
0°-90°	1857.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	132	98	58	31	25	26
15°	2145	414	31	5	4	956
25°	14721	513	9	0	0	6582
35°	12536	255	2	0	0	7210
45°	1014	32	2	0	4	1089
55°	18	0	4	5	9	35
65°	2	2	7	9	11	2
75°	2	2	7	5	7	1
85°	0	2	5	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1308523
 CATALOG NUMBER: LDSQA3D24R159027D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
2.5°	90.4	86.8	88.6	88.6	88.6	88.6	88.6	84.9	84.9	86.8	77.7
5°	131.9	131.9	130.1	131.9	131.9	130.1	126.5	124.7	124.7	121.1	97.6
7.5°	263.9	260.3	260.3	256.6	238.6	233.2	229.5	220.5	204.2	200.6	126.5
10°	578.4	580.2	567.5	551.2	549.4	522.3	513.3	497.0	466.3	435.6	182.5
12.5°	1050.1	1026.6	995.9	997.7	945.3	927.2	885.6	840.4	793.4	744.6	300.0
15°	2145.3	2078.5	2118.2	2020.6	1910.4	1785.7	1659.2	1500.1	1364.6	1220.0	413.9
17.5°	4518.4	4583.5	4473.2	4055.7	3799.1	3497.3	3072.5	2662.3	2311.6	2029.7	506.1
20°	8026.5	8122.3	7748.2	7384.9	6761.4	6081.8	5373.3	4570.8	3802.7	3137.6	567.5
21°	9492.3	9434.5	9280.8	8698.9	7979.5	7191.5	6324.0	5438.4	4507.6	3643.7	572.9
22°	10909.3	10936.4	10578.5	9969.4	9221.2	8348.2	7289.1	6195.7	5192.6	4055.7	563.9
23°	12320.8	12407.6	11934.0	11362.9	10421.3	9436.3	8210.9	7030.7	5790.8	4527.5	545.8
24°	13627.5	13567.9	13248.0	12528.7	11522.0	10368.9	9096.5	7665.0	6282.4	4930.5	531.4
25°	14721.0	14713.8	14211.3	13511.9	12360.6	11082.8	9680.3	8183.8	6703.5	5203.4	513.3
26°	15615.6	15469.3	15073.4	14220.4	13083.5	11735.2	10159.2	8561.5	6940.3	5340.8	495.2
27°	16306.1	16201.2	15669.9	14782.5	13595.0	12103.9	10466.5	8749.5	7048.7	5386.0	471.7
28°	16770.6	16656.7	16091.0	15176.5	13877.0	12335.3	10629.1	8829.0	7048.7	5342.6	450.0
29°	17010.9	16855.5	16291.6	15312.0	13942.0	12362.4	10589.4	8751.3	6938.5	5208.8	424.7
30°	16992.9	16799.5	16208.5	15189.1	13748.6	12140.1	10367.1	8471.1	6689.1	5010.0	395.8
31°	16700.1	16483.2	15823.5	14773.4	13349.2	11720.8	9947.7	8095.2	6347.5	4751.6	366.9
32°	16105.4	15830.7	15187.3	14140.8	12734.7	11093.6	9338.7	7515.0	5836.0	4373.8	336.2
33°	15136.7	14860.2	14169.8	13188.4	11903.3	10298.4	8530.8	6891.5	5254.0	3923.8	310.9
34°	13924.0	13670.9	13076.3	12087.7	10855.0	9291.7	7601.8	6029.4	4650.4	3477.4	283.8
35°	12535.9	12132.9	11594.3	10811.7	9609.8	8037.4	6598.7	5226.9	4028.6	3009.3	254.8
36°	10658.0	10730.3	10159.2	9201.3	8205.4	6972.8	5592.0	4357.6	3368.9	2564.7	229.5
37°	8993.5	8879.6	8516.3	7775.3	6907.8	5684.2	4686.5	3694.3	2834.0	2168.8	202.4
38°	7254.8	7280.1	6924.0	6354.7	5494.4	4673.9	3772.0	3034.6	2371.3	1845.3	177.1
39°	5678.7	5658.9	5563.1	5035.3	4256.3	3717.8	3056.3	2515.9	1975.5	1556.1	150.0
40°	4278.0	4310.6	4086.5	3768.4	3314.7	2871.9	2434.5	2006.2	1633.9	1312.1	117.5
42.5°	2080.3	2130.9	1982.7	1901.3	1700.7	1527.2	1288.7	1051.9	894.6	773.6	52.4
45°	1013.9	985.0	972.4	932.6	885.6	791.6	701.3	601.9	525.9	453.6	32.5
47.5°	518.7	504.3	504.3	488.0	471.7	441.0	395.8	363.3	327.1	281.9	12.7
50°	155.4	153.6	151.8	153.6	148.2	153.6	157.2	159.0	144.6	142.8	3.6
52.5°	61.5	63.3	61.5	66.9	66.9	65.1	66.9	65.1	63.3	56.0	0.0
55°	18.1	18.1	18.1	18.1	18.1	18.1	19.9	21.7	19.9	21.7	0.0
57.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	0.0
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8



TEST NUMBER: P1308523
CATALOG NUMBER: LDSQA3D24R159027D010 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	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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: P1308523

CATALOG NUMBER: LDSQA3D24R159027D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	61.5	61.5	61.5	61.5	61.5	61.5
2.5°	72.3	63.3	52.4	43.4	39.8	38.0
5°	77.7	57.8	39.8	30.7	27.1	25.3
7.5°	83.1	52.4	30.7	21.7	16.3	14.5
10°	86.8	45.2	23.5	12.7	9.0	9.0
12.5°	86.8	36.1	16.3	7.2	5.4	5.4
15°	84.9	30.7	10.8	5.4	3.6	3.6
17.5°	83.1	23.5	7.2	3.6	1.8	3.6
20°	77.7	18.1	3.6	1.8	1.8	1.8
21°	75.9	16.3	3.6	1.8	1.8	1.8
22°	72.3	14.5	1.8	0.0	1.8	1.8
23°	68.7	10.8	1.8	0.0	0.0	0.0
24°	63.3	9.0	1.8	0.0	0.0	0.0
25°	59.6	9.0	1.8	0.0	0.0	0.0
26°	56.0	5.4	0.0	0.0	0.0	0.0
27°	50.6	3.6	0.0	0.0	0.0	0.0
28°	47.0	3.6	0.0	0.0	0.0	0.0
29°	41.6	3.6	0.0	0.0	0.0	0.0
30°	36.1	3.6	0.0	0.0	0.0	0.0
31°	28.9	1.8	0.0	0.0	0.0	0.0
32°	23.5	1.8	0.0	0.0	0.0	0.0
33°	16.3	1.8	0.0	0.0	0.0	0.0
34°	10.8	1.8	0.0	0.0	0.0	0.0
35°	9.0	1.8	0.0	0.0	0.0	0.0
36°	5.4	1.8	0.0	0.0	0.0	1.8
37°	5.4	1.8	0.0	0.0	0.0	1.8
38°	3.6	1.8	0.0	0.0	0.0	1.8
39°	1.8	1.8	0.0	0.0	0.0	1.8
40°	1.8	1.8	0.0	0.0	0.0	1.8
42.5°	0.0	1.8	0.0	0.0	1.8	3.6
45°	0.0	1.8	0.0	0.0	1.8	3.6
47.5°	0.0	1.8	0.0	0.0	3.6	3.6
50°	0.0	1.8	1.8	1.8	3.6	5.4
52.5°	0.0	3.6	1.8	3.6	5.4	7.2
55°	1.8	3.6	3.6	5.4	7.2	9.0
57.5°	1.8	5.4	5.4	7.2	9.0	9.0
60°	3.6	5.4	7.2	7.2	10.8	10.8
62.5°	3.6	7.2	7.2	7.2	10.8	10.8
65°	3.6	7.2	7.2	9.0	10.8	10.8
67.5°	3.6	7.2	7.2	7.2	9.0	10.8
70°	3.6	7.2	5.4	7.2	9.0	9.0
72.5°	3.6	7.2	5.4	5.4	7.2	9.0
75°	3.6	7.2	5.4	5.4	7.2	7.2
77.5°	3.6	5.4	5.4	3.6	5.4	5.4
80°	3.6	5.4	3.6	3.6	5.4	5.4



TEST NUMBER: P1308523
CATALOG NUMBER: LDSQA3D24R159027D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.6	5.4	3.6	1.8	3.6	3.6
85°	3.6	5.4	3.6	1.8	1.8	1.8
87.5°	3.6	5.4	1.8	0.0	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)