

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: P1311585

Luminaire Tested: LDSQA3D17R159040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311585
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: LDSQA3D17R159040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

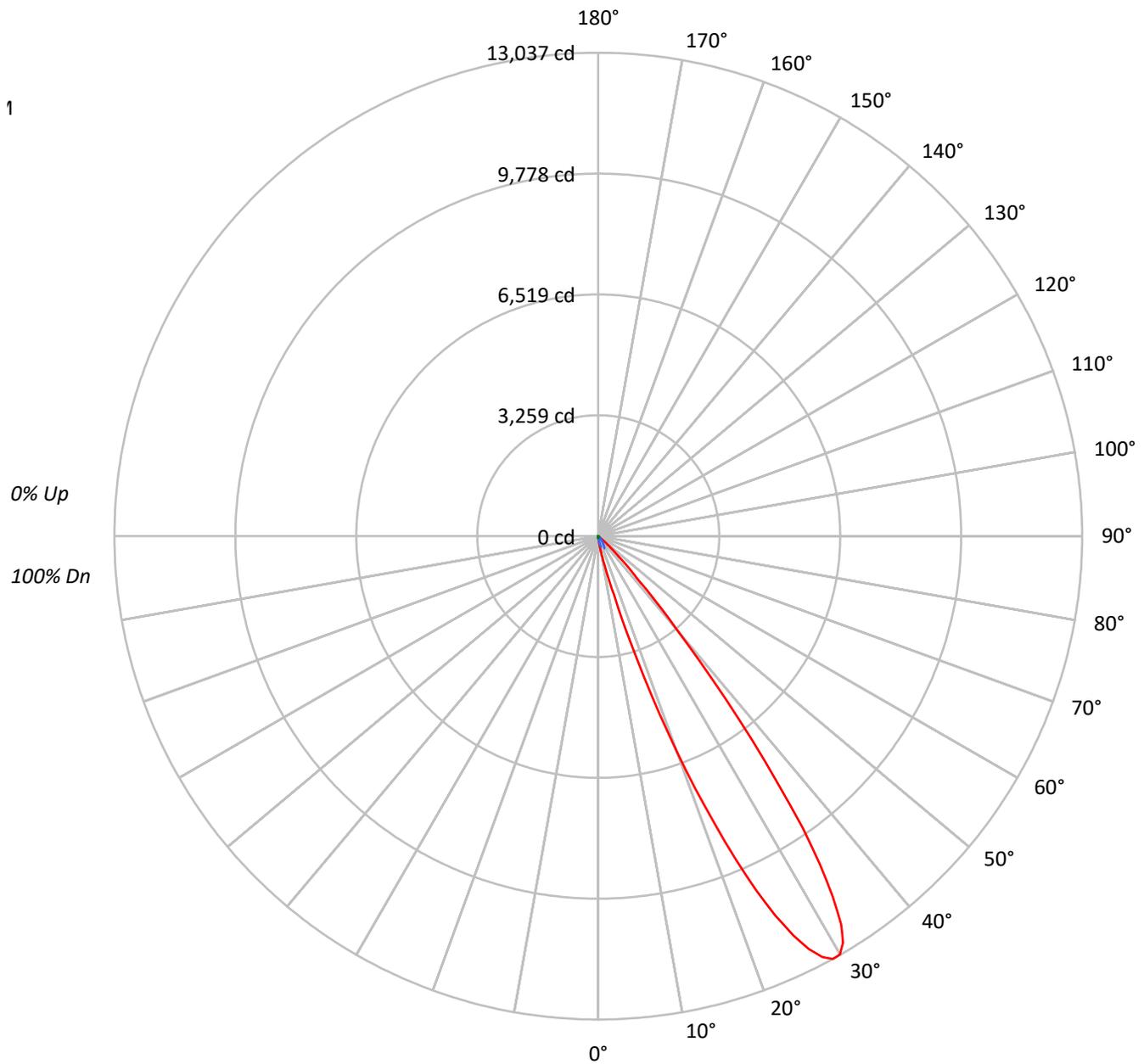
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1424.0 lumens
Efficiency: N/A
Efficacy: 67.2 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 (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: P1311585
CATALOG NUMBER: LDSQA3D17R159040DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: LDSQA3D17R159040DE010 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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8112	8112	8112	8112	8112
5°	17478	12931	7659	4063	3354
10°	77524	24466	6051	1696	1207
15°	293158	56556	4190	749	499
20°	1127438	79725	2548	257	257
25°	2143957	74756	1311	0	0
30°	2589946	60336	557	0	0
35°	2019971	41061	294	0	0
40°	737142	20234	315	0	315
45°	189270	6065	341	0	682
50°	31911	750	375	375	1125
55°	4174	0	841	1261	2072
60°	482	482	1447	1894	2859
65°	571	571	2241	2812	3382
70°	705	705	2769	2769	3474
75°	932	932	3660	2795	3660
80°	0	1389	4166	2777	4166
85°	0	2766	8299	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 189270 cd/sqm



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CATALOG NUMBER: LDSQA3D17R159040DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.5
10°-20°	109.1	7.7
20°-30°	605.2	42.5
30°-40°	584.7	41.1
40°-50°	101.7	7.1
50°-60°	7.3	0.5
60°-70°	4.3	0.3
70°-80°	3.5	0.2
80°-90°	1.8	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°	720.8	50.6
0°-40°	1305.5	91.7
0°-60°	1414.5	99.3
0°-90°	1424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	101	75	44	24	19	20
15°	1644	317	24	4	3	733
25°	11282	393	7	0	0	5045
35°	9608	195	1	0	0	5526
45°	777	25	1	0	3	835
55°	14	0	3	4	7	27
65°	1	1	6	7	8	1
75°	1	1	6	4	6	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1311585

CATALOG NUMBER: LDSQA3D17R159040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	69.3	66.5	67.9	67.9	67.9	67.9	67.9	65.1	65.1	66.5	59.6
5°	101.1	101.1	99.7	101.1	101.1	99.7	97.0	95.6	95.6	92.8	74.8
7.5°	202.2	199.5	199.5	196.7	182.8	178.7	175.9	169.0	156.5	153.8	97.0
10°	443.3	444.6	435.0	422.5	421.1	400.3	393.4	380.9	357.4	333.8	139.9
12.5°	804.8	786.8	763.2	764.6	724.5	710.6	678.7	644.1	608.1	570.7	229.9
15°	1644.2	1593.0	1623.4	1548.6	1464.2	1368.6	1271.6	1149.7	1045.8	935.0	317.2
17.5°	3463.0	3512.9	3428.4	3108.4	2911.7	2680.4	2354.8	2040.4	1771.7	1555.6	387.9
20°	6151.6	6225.1	5938.3	5659.9	5182.0	4661.2	4118.2	3503.2	2914.4	2404.7	435.0
21°	7275.0	7230.7	7113.0	6666.9	6115.6	5511.7	4846.8	4168.0	3454.7	2792.6	439.1
22°	8361.0	8381.8	8107.5	7640.7	7067.3	6398.2	5586.5	4748.4	3979.7	3108.4	432.2
23°	9442.9	9509.4	9146.4	8708.7	7987.0	7232.1	6292.9	5388.4	4438.2	3469.9	418.3
24°	10444.4	10398.7	10153.5	9602.2	8830.6	7946.9	6971.7	5874.6	4814.9	3778.8	407.2
25°	11282.4	11276.9	10891.8	10355.7	9473.3	8494.0	7419.1	6272.2	5137.7	3988.0	393.4
26°	11968.1	11855.9	11552.5	10898.7	10027.4	8994.1	7786.2	6561.7	5319.1	4093.2	379.5
27°	12497.2	12416.9	12009.6	11329.5	10419.4	9276.6	8021.7	6705.7	5402.3	4127.9	361.5
28°	12853.2	12765.9	12332.4	11631.5	10635.5	9453.9	8146.3	6766.7	5402.3	4094.6	344.9
29°	13037.4	12918.3	12486.1	11735.4	10685.4	9474.7	8115.9	6707.1	5317.8	3992.1	325.5
30°	13023.6	12875.4	12422.4	11641.2	10537.2	9304.3	7945.5	6492.4	5126.6	3839.8	303.4
31°	12799.2	12633.0	12127.4	11322.6	10231.0	8983.0	7624.1	6204.3	4864.8	3641.7	281.2
32°	12343.5	12132.9	11639.8	10837.8	9760.1	8502.3	7157.3	5759.6	4472.8	3352.2	257.6
33°	11601.0	11389.1	10859.9	10107.8	9122.9	7892.8	6538.1	5281.7	4026.8	3007.3	238.3
34°	10671.5	10477.6	10021.9	9264.2	8319.5	7121.3	5826.1	4621.0	3564.1	2665.1	217.5
35°	9607.7	9298.8	8886.0	8286.2	7365.1	6160.0	5057.3	4006.0	3087.6	2306.3	195.3
36°	8168.5	8223.9	7786.2	7052.0	6288.8	5344.1	4285.8	3339.7	2582.0	1965.6	175.9
37°	6892.7	6805.5	6527.0	5959.1	5294.2	4356.4	3591.8	2831.3	2172.0	1662.2	155.1
38°	5560.2	5579.6	5306.7	4870.3	4211.0	3582.1	2890.9	2325.7	1817.4	1414.3	135.7
39°	4352.3	4337.0	4263.6	3859.2	3262.1	2849.3	2342.4	1928.2	1514.0	1192.7	115.0
40°	3278.8	3303.7	3131.9	2888.1	2540.4	2201.1	1865.9	1537.6	1252.2	1005.7	90.0
42.5°	1594.4	1633.1	1519.6	1457.2	1303.5	1170.5	987.6	806.2	685.7	592.9	40.2
45°	777.1	754.9	745.2	714.8	678.7	606.7	537.5	461.3	403.1	347.7	24.9
47.5°	397.6	386.5	386.5	374.0	361.5	338.0	303.4	278.4	250.7	216.1	9.7
50°	119.1	117.7	116.4	117.7	113.6	117.7	120.5	121.9	110.8	109.4	2.8
52.5°	47.1	48.5	47.1	51.3	51.3	49.9	51.3	49.9	48.5	42.9	0.0
55°	13.9	13.9	13.9	13.9	13.9	13.9	15.2	16.6	15.2	16.6	0.0
57.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	0.0
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4



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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	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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: P1311585

CATALOG NUMBER: LDSQA3D17R159040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	47.1	47.1	47.1	47.1	47.1	47.1
2.5°	55.4	48.5	40.2	33.2	30.5	29.1
5°	59.6	44.3	30.5	23.5	20.8	19.4
7.5°	63.7	40.2	23.5	16.6	12.5	11.1
10°	66.5	34.6	18.0	9.7	6.9	6.9
12.5°	66.5	27.7	12.5	5.5	4.2	4.2
15°	65.1	23.5	8.3	4.2	2.8	2.8
17.5°	63.7	18.0	5.5	2.8	1.4	2.8
20°	59.6	13.9	2.8	1.4	1.4	1.4
21°	58.2	12.5	2.8	1.4	1.4	1.4
22°	55.4	11.1	1.4	0.0	1.4	1.4
23°	52.6	8.3	1.4	0.0	0.0	0.0
24°	48.5	6.9	1.4	0.0	0.0	0.0
25°	45.7	6.9	1.4	0.0	0.0	0.0
26°	42.9	4.2	0.0	0.0	0.0	0.0
27°	38.8	2.8	0.0	0.0	0.0	0.0
28°	36.0	2.8	0.0	0.0	0.0	0.0
29°	31.9	2.8	0.0	0.0	0.0	0.0
30°	27.7	2.8	0.0	0.0	0.0	0.0
31°	22.2	1.4	0.0	0.0	0.0	0.0
32°	18.0	1.4	0.0	0.0	0.0	0.0
33°	12.5	1.4	0.0	0.0	0.0	0.0
34°	8.3	1.4	0.0	0.0	0.0	0.0
35°	6.9	1.4	0.0	0.0	0.0	0.0
36°	4.2	1.4	0.0	0.0	0.0	1.4
37°	4.2	1.4	0.0	0.0	0.0	1.4
38°	2.8	1.4	0.0	0.0	0.0	1.4
39°	1.4	1.4	0.0	0.0	0.0	1.4
40°	1.4	1.4	0.0	0.0	0.0	1.4
42.5°	0.0	1.4	0.0	0.0	1.4	2.8
45°	0.0	1.4	0.0	0.0	1.4	2.8
47.5°	0.0	1.4	0.0	0.0	2.8	2.8
50°	0.0	1.4	1.4	1.4	2.8	4.2
52.5°	0.0	2.8	1.4	2.8	4.2	5.5
55°	1.4	2.8	2.8	4.2	5.5	6.9
57.5°	1.4	4.2	4.2	5.5	6.9	6.9
60°	2.8	4.2	5.5	5.5	8.3	8.3
62.5°	2.8	5.5	5.5	5.5	8.3	8.3
65°	2.8	5.5	5.5	6.9	8.3	8.3
67.5°	2.8	5.5	5.5	5.5	6.9	8.3
70°	2.8	5.5	4.2	5.5	6.9	6.9
72.5°	2.8	5.5	4.2	4.2	5.5	6.9
75°	2.8	5.5	4.2	4.2	5.5	5.5
77.5°	2.8	4.2	4.2	2.8	4.2	4.2
80°	2.8	4.2	2.8	2.8	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.8	4.2	2.8	1.4	2.8	2.8
85°	2.8	4.2	2.8	1.4	1.4	1.4
87.5°	2.8	4.2	1.4	0.0	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)