

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: P1320052

Luminaire Tested: LDSQA3D13R159840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320052
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: LDSQA3D13R159840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

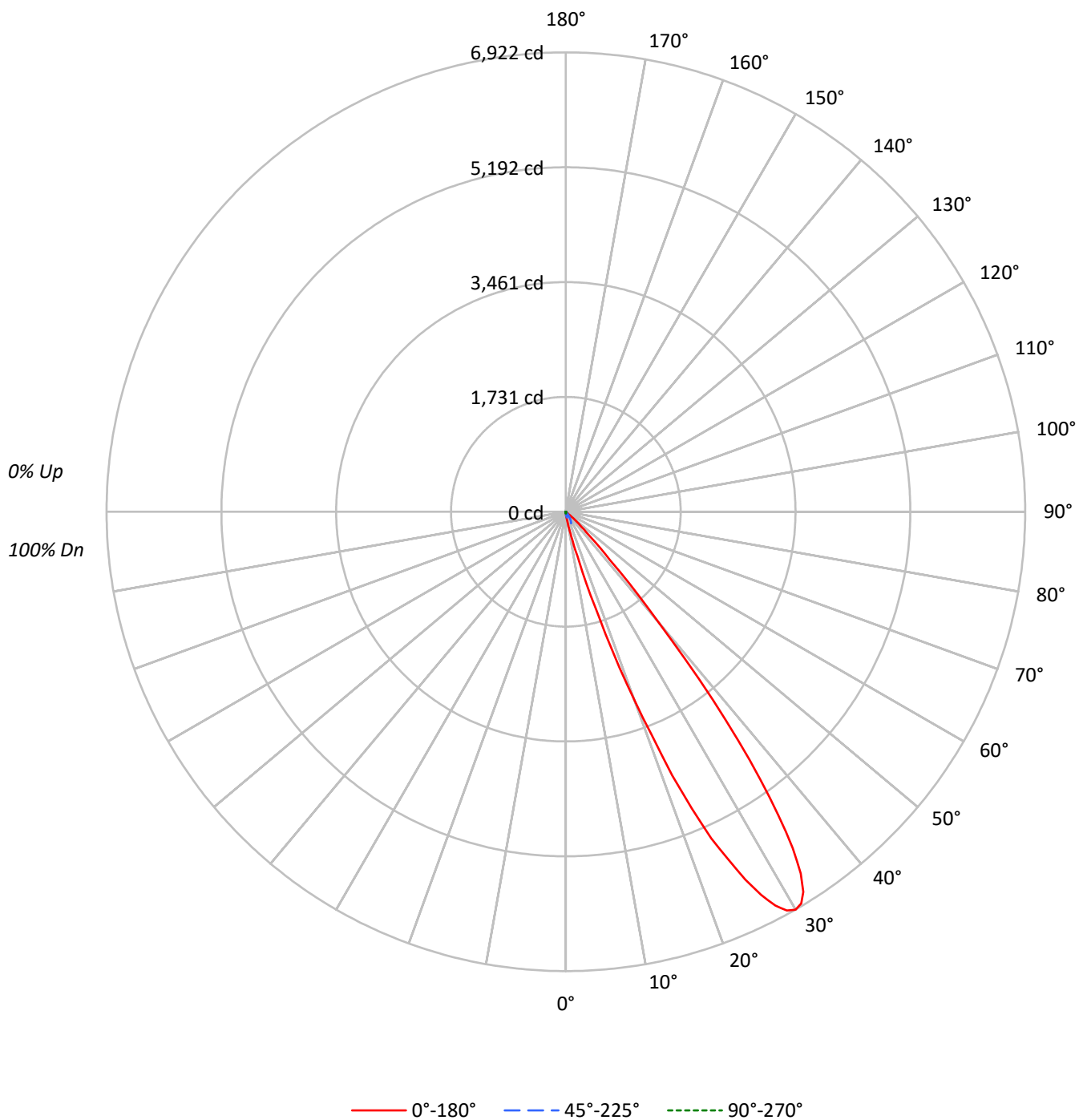
Lumens per Lamp: N/A
Luminaire Lumens: 732.0 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4512	4512	4512	4512	4512
5°	13035	9854	3855	1591	1072
10°	33927	14672	2553	0	0
15°	135596	24017	1373	0	0
20°	554005	35409	422	0	0
25°	1095124	35098	0	0	0
30°	1376448	27702	0	0	0
35°	1174429	16988	0	0	0
40°	483499	5373	0	0	0
45°	104609	2241	0	0	0
50°	13397	0	0	0	0
55°	1141	0	240	0	0
60°	0	0	517	0	0
65°	0	0	611	0	0
70°	0	403	1158	0	0
75°	0	532	1530	0	0
80°	0	793	2281	0	0
85°	0	1581	4545	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 109480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.5	0.5
10°-20°	51.3	7.0
20°-30°	299.0	40.8
30°-40°	320.6	43.8
40°-50°	54.1	7.4
50°-60°	1.6	0.2
60°-70°	0.5	0.1
70°-80°	0.7	0.1
80°-90°	0.6	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°	353.8	48.3
0°-40°	674.4	92.1
0°-60°	730.2	99.7
0°-90°	732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	732.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	75	57	22	9	6	10
15°	760	135	8	0	0	352
25°	5763	185	0	0	0	2607
35°	5586	81	0	0	0	3210
45°	430	9	0	0	0	507
55°	4	0	1	0	0	10
65°	0	0	2	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
2.5°	47.7	48.5	49.3	49.3	49.3	49.3	48.5	48.5	48.5	48.5	47.7
5°	75.4	75.4	75.4	75.4	75.4	75.4	74.7	74.7	74.7	74.7	74.7
7.5°	107.8	106.2	107.0	104.7	106.2	105.5	104.7	106.2	106.2	102.4	102.4
10°	194.0	193.2	185.5	187.0	188.6	187.8	187.8	183.2	182.4	179.3	176.3
12.5°	374.1	382.6	388.7	388.7	374.1	379.5	369.5	371.8	373.3	368.7	352.5
15°	760.5	774.4	759.7	773.6	768.2	748.2	725.9	695.8	707.4	686.6	679.7
17.5°	1665.7	1697.3	1684.2	1620.3	1641.1	1591.8	1561.0	1549.5	1517.2	1420.9	1380.9
20°	3022.8	3061.2	3025.1	2950.4	2974.3	2881.1	2857.3	2834.9	2691.8	2639.4	2471.6
21°	3593.9	3625.5	3639.3	3561.6	3513.9	3440.0	3378.4	3358.4	3271.4	3170.5	2998.1
22°	4283.6	4246.6	4163.5	4174.3	4103.5	4042.7	3957.2	3876.4	3779.4	3638.5	3496.1
23°	4854.7	4811.6	4772.4	4724.6	4648.4	4605.3	4483.0	4394.4	4268.2	4117.3	3980.3
24°	5386.6	5320.4	5295.8	5211.1	5189.6	5092.6	4993.3	4877.8	4725.4	4564.5	4412.9
25°	5763.0	5773.0	5751.5	5741.5	5631.4	5532.1	5433.6	5255.8	5125.7	4983.3	4750.1
26°	6166.4	6171.0	6160.2	6086.3	5987.0	5890.0	5763.0	5608.3	5419.7	5261.9	5051.0
27°	6475.0	6456.6	6441.2	6353.4	6271.8	6149.4	6034.0	5850.8	5666.8	5479.0	5234.2
28°	6721.3	6686.7	6667.5	6592.0	6496.6	6346.5	6204.9	6034.0	5850.0	5648.3	5383.5
29°	6869.9	6833.0	6811.4	6728.3	6618.2	6486.6	6343.4	6155.6	5957.8	5733.0	5466.7
30°	6921.5	6899.9	6866.1	6779.8	6665.9	6528.9	6381.9	6177.9	5970.9	5740.7	5459.0
31°	6887.6	6859.9	6827.6	6734.4	6611.3	6480.4	6309.5	6095.6	5877.7	5658.3	5359.7
32°	6752.9	6736.0	6696.7	6572.0	6472.0	6302.6	6134.0	5933.9	5696.1	5460.5	5190.3
33°	6500.4	6472.7	6438.9	6324.9	6197.2	6034.7	5866.9	5662.2	5425.9	5177.3	4880.1
34°	6115.6	6080.2	6037.8	5961.6	5798.4	5657.6	5463.6	5224.2	5028.7	4790.1	4521.4
35°	5586.0	5534.4	5483.6	5425.9	5242.7	5112.6	4981.7	4773.1	4584.6	4359.8	4055.7
36°	4991.7	4971.7	4930.2	4777.8	4718.5	4541.5	4436.0	4196.6	4044.2	3824.1	3573.1
37°	4319.8	4202.0	4262.0	4176.6	3998.0	3942.6	3817.1	3611.6	3446.9	3214.4	3032.8
38°	3599.3	3522.3	3564.7	3478.4	3385.3	3257.5	3162.1	3012.0	2827.2	2644.8	2472.4
39°	2852.6	2790.3	2836.5	2778.0	2636.4	2583.2	2498.6	2383.9	2235.3	2092.9	1929.7
40°	2150.6	2070.6	2132.2	2049.0	1984.4	1897.4	1854.3	1748.8	1656.5	1571.0	1467.1
42.5°	982.2	973.7	959.9	929.8	922.9	923.7	870.6	835.9	789.0	734.3	701.2
45°	429.5	440.3	449.5	432.6	431.8	422.6	419.5	396.4	387.2	369.5	347.9
47.5°	211.7	215.5	213.2	217.8	214.0	207.8	206.3	203.2	194.0	193.2	183.2
50°	50.0	49.3	49.3	50.0	49.3	49.3	48.5	47.0	46.2	47.0	44.6
52.5°	16.2	16.9	16.2	15.4	16.2	16.9	16.2	16.2	16.2	16.2	16.2
55°	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.1	3.8	3.8	3.8
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



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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

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.2
2.5°	47.0	40.0	33.1	26.2	19.2	15.4	14.6	13.9
5°	70.8	57.0	37.7	22.3	13.1	9.2	6.9	6.2
7.5°	95.4	70.8	41.6	18.5	9.2	3.8	1.5	0.8
10°	137.0	83.9	43.1	14.6	4.6	0.0	0.0	0.0
12.5°	268.6	96.2	42.3	11.5	0.8	0.0	0.0	0.0
15°	446.4	134.7	39.3	7.7	0.0	0.0	0.0	0.0
17.5°	731.3	174.0	33.9	5.4	0.0	0.0	0.0	0.0
20°	1133.8	193.2	26.2	2.3	0.0	0.0	0.0	0.0
21°	1329.3	194.7	23.1	1.5	0.0	0.0	0.0	0.0
22°	1498.7	194.7	20.0	0.8	0.0	0.0	0.0	0.0
23°	1655.7	192.4	17.7	0.0	0.0	0.0	0.0	0.0
24°	1785.0	189.4	16.2	0.0	0.0	0.0	0.0	0.0
25°	1882.0	184.7	14.6	0.0	0.0	0.0	0.0	0.0
26°	1926.7	178.6	12.3	0.0	0.0	0.0	0.0	0.0
27°	1949.0	170.1	10.8	0.0	0.0	0.0	0.0	0.0
28°	1933.6	160.9	9.2	0.0	0.0	0.0	0.0	0.0
29°	1895.1	150.9	6.9	0.0	0.0	0.0	0.0	0.0
30°	1845.1	139.3	5.4	0.0	0.0	0.0	0.0	0.0
31°	1771.9	127.8	3.8	0.0	0.0	0.0	0.0	0.0
32°	1671.9	116.2	3.1	0.0	0.0	0.0	0.0	0.0
33°	1537.9	103.9	1.5	0.0	0.0	0.0	0.0	0.0
34°	1372.4	91.6	0.8	0.0	0.0	0.0	0.0	0.0
35°	1186.9	80.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	1027.6	69.3	0.0	0.0	0.0	0.0	0.0	0.0
37°	867.5	55.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	726.6	43.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	601.2	35.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	498.0	23.9	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	275.6	16.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	167.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	97.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.1	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.8	1.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.8	1.5	0.8	0.0	0.0	0.0
65°	0.0	0.0	1.5	1.5	0.8	0.0	0.0	0.0
67.5°	0.0	0.0	1.5	2.3	0.8	0.0	0.0	0.0
70°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
72.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
75°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
77.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
85°	0.0	0.8	1.5	2.3	0.8	0.0	0.0	0.0
87.5°	0.0	0.8	1.5	2.3	0.8	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)