

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: P1315397

Luminaire Tested: LDSQA3D09R159735DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315397
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: LDSQA3D09R159735DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

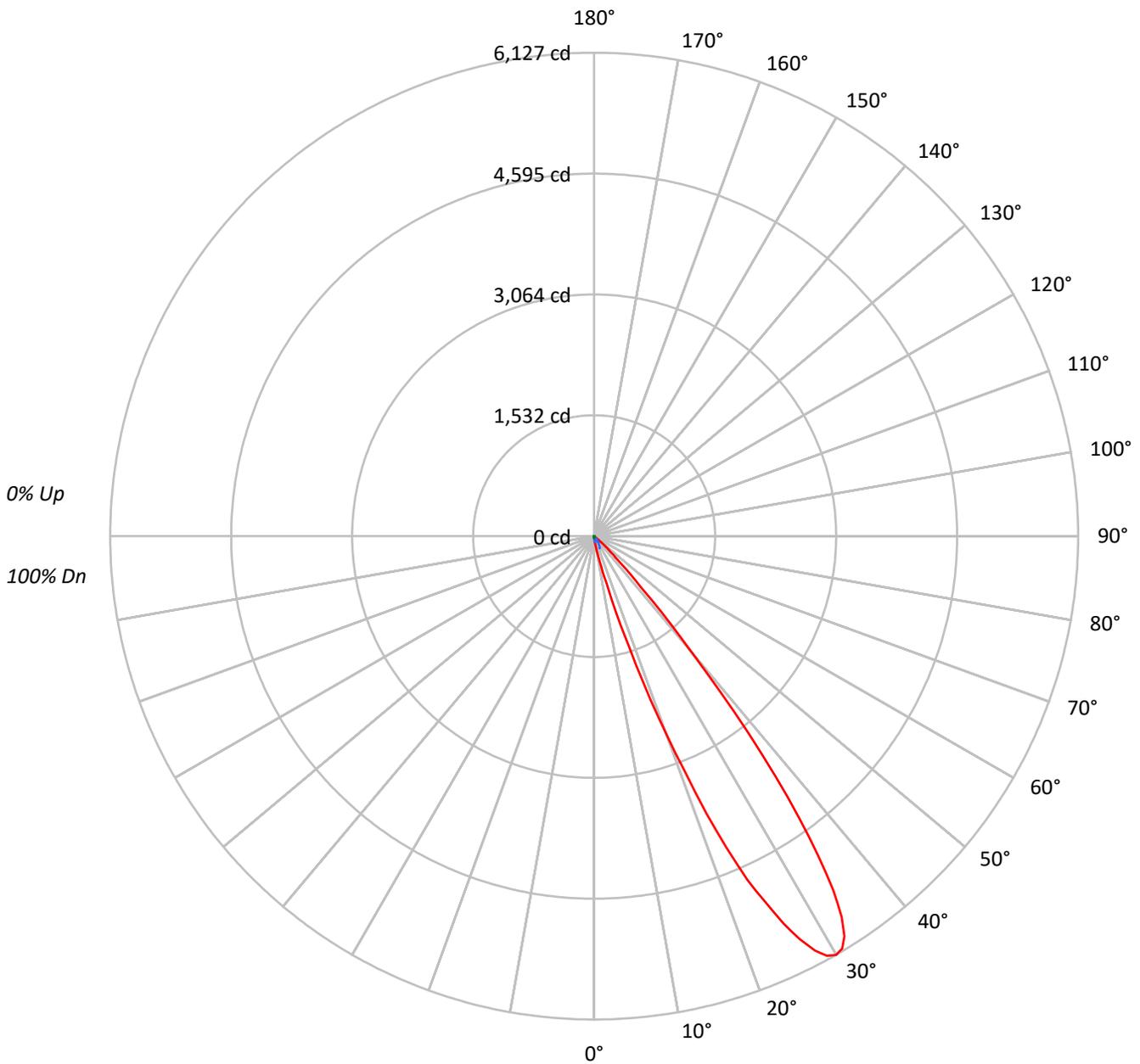
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 648.0 lumens
Efficiency: N/A
Efficacy: 58.4 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): 11.1
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

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Luminous Intensity Polar Plot



0% Up
100% Dn

— 0°-180° - - 45°-225° - - - 90°-270°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	94	96	95	94	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	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3996	3996	3996	3996	3996
5°	11548	8713	3423	1418	951
10°	30027	12994	2256	0	0
15°	120030	21253	1212	0	0
20°	490427	31340	367	0	0
25°	969459	31069	0	0	0
30°	1218489	24520	0	0	0
35°	1039662	15033	0	0	0
40°	428036	4744	0	0	0
45°	92601	1997	0	0	0
50°	11869	0	0	0	0
55°	1021	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1007	0	0
75°	0	466	1331	0	0
80°	0	694	1984	0	0
85°	0	1383	3952	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°
 Vertical Angle: 45°
 Luminance: 96912 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.5
10°-20°	45.4	7.0
20°-30°	264.7	40.8
30°-40°	283.8	43.8
40°-50°	47.9	7.4
50°-60°	1.4	0.2
60°-70°	0.4	0.1
70°-80°	0.6	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°	313.2	48.3
0°-40°	597.0	92.1
0°-60°	646.4	99.7
0°-90°	648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	648.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	67	50	20	8	6	9
15°	673	119	7	0	0	311
25°	5102	164	0	0	0	2308
35°	4945	72	0	0	0	2842
45°	380	8	0	0	0	449
55°	3	0	1	0	0	9
65°	0	0	1	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°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	42.2	42.9	43.6	43.6	43.6	43.6	42.9	42.9	42.9	42.9	42.2
5°	66.8	66.8	66.8	66.8	66.8	66.8	66.1	66.1	66.1	66.1	66.1
7.5°	95.4	94.0	94.7	92.7	94.0	93.4	92.7	94.0	94.0	90.6	90.6
10°	171.7	171.0	164.2	165.6	166.9	166.3	166.3	162.2	161.5	158.8	156.0
12.5°	331.2	338.7	344.1	344.1	331.2	335.9	327.1	329.1	330.5	326.4	312.1
15°	673.2	685.5	672.5	684.8	680.0	662.3	642.6	616.0	626.2	607.8	601.7
17.5°	1474.6	1502.5	1490.9	1434.4	1452.8	1409.1	1381.9	1371.7	1343.1	1257.9	1222.4
20°	2675.9	2710.0	2677.9	2611.8	2633.0	2550.5	2529.4	2509.6	2382.9	2336.5	2188.0
21°	3181.5	3209.4	3221.7	3152.9	3110.6	3045.2	2990.7	2973.0	2896.0	2806.7	2654.1
22°	3792.0	3759.3	3685.7	3695.3	3632.6	3578.7	3503.1	3431.6	3345.7	3221.0	3095.0
23°	4297.6	4259.5	4224.7	4182.5	4115.0	4076.9	3968.5	3890.2	3778.4	3644.8	3523.6
24°	4768.5	4709.9	4688.1	4613.1	4594.0	4508.2	4420.3	4318.1	4183.2	4040.7	3906.5
25°	5101.7	5110.6	5091.5	5082.6	4985.2	4897.3	4810.1	4652.6	4537.5	4411.4	4205.0
26°	5458.8	5462.8	5453.3	5387.9	5300.0	5214.1	5101.7	4964.7	4797.8	4658.1	4471.4
27°	5732.0	5715.6	5702.0	5624.3	5552.1	5443.8	5341.6	5179.4	5016.5	4850.3	4633.6
28°	5950.0	5919.4	5902.3	5835.6	5751.1	5618.2	5492.8	5341.6	5178.7	5000.2	4765.8
29°	6081.6	6048.9	6029.8	5956.2	5858.7	5742.2	5615.5	5449.2	5274.1	5075.1	4839.4
30°	6127.2	6108.1	6078.2	6001.8	5901.0	5779.7	5649.5	5469.0	5285.7	5081.9	4832.5
31°	6097.2	6072.7	6044.1	5961.6	5852.6	5736.8	5585.5	5396.1	5203.2	5009.0	4744.6
32°	5978.0	5963.0	5928.2	5817.9	5729.3	5579.4	5430.1	5253.0	5042.4	4833.9	4594.7
33°	5754.5	5730.0	5700.0	5599.1	5486.0	5342.2	5193.7	5012.4	4803.2	4583.1	4320.1
34°	5413.8	5382.4	5345.0	5277.5	5133.0	5008.3	4836.6	4624.7	4451.6	4240.4	4002.6
35°	4945.0	4899.3	4854.3	4803.2	4641.1	4525.9	4410.1	4225.4	4058.5	3859.5	3590.3
36°	4418.9	4401.2	4364.4	4229.5	4177.0	4020.3	3926.9	3715.0	3580.1	3385.2	3163.1
37°	3824.1	3719.8	3773.0	3697.3	3539.2	3490.2	3379.1	3197.2	3051.3	2845.6	2684.7
38°	3186.3	3118.1	3155.6	3079.3	2996.8	2883.7	2799.2	2666.3	2502.8	2341.3	2188.7
39°	2525.3	2470.1	2511.0	2459.2	2333.8	2286.8	2211.8	2110.3	1978.8	1852.7	1708.3
40°	1903.9	1833.0	1887.5	1813.9	1756.7	1679.7	1641.5	1548.2	1466.4	1390.8	1298.8
42.5°	869.5	862.0	849.7	823.1	817.0	817.7	770.7	740.0	698.4	650.1	620.8
45°	380.2	389.8	397.9	383.0	382.3	374.1	371.4	350.9	342.7	327.1	308.0
47.5°	187.4	190.8	188.7	192.8	189.4	184.0	182.6	179.9	171.7	171.0	162.2
50°	44.3	43.6	43.6	44.3	43.6	43.6	42.9	41.6	40.9	41.6	39.5
52.5°	14.3	15.0	14.3	13.6	14.3	15.0	14.3	14.3	14.3	14.3	14.3
55°	3.4	3.4	3.4	3.4	3.4	3.4	2.7	2.7	3.4	3.4	3.4
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°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
2.5°	41.6	35.4	29.3	23.2	17.0	13.6	12.9	12.3
5°	62.7	50.4	33.4	19.8	11.6	8.2	6.1	5.5
7.5°	84.5	62.7	36.8	16.4	8.2	3.4	1.4	0.7
10°	121.3	74.3	38.2	12.9	4.1	0.0	0.0	0.0
12.5°	237.8	85.2	37.5	10.2	0.7	0.0	0.0	0.0
15°	395.2	119.2	34.8	6.8	0.0	0.0	0.0	0.0
17.5°	647.3	154.0	30.0	4.8	0.0	0.0	0.0	0.0
20°	1003.7	171.0	23.2	2.0	0.0	0.0	0.0	0.0
21°	1176.8	172.4	20.4	1.4	0.0	0.0	0.0	0.0
22°	1326.7	172.4	17.7	0.7	0.0	0.0	0.0	0.0
23°	1465.7	170.4	15.7	0.0	0.0	0.0	0.0	0.0
24°	1580.2	167.6	14.3	0.0	0.0	0.0	0.0	0.0
25°	1666.0	163.5	12.9	0.0	0.0	0.0	0.0	0.0
26°	1705.6	158.1	10.9	0.0	0.0	0.0	0.0	0.0
27°	1725.3	150.6	9.5	0.0	0.0	0.0	0.0	0.0
28°	1711.7	142.4	8.2	0.0	0.0	0.0	0.0	0.0
29°	1677.6	133.6	6.1	0.0	0.0	0.0	0.0	0.0
30°	1633.3	123.3	4.8	0.0	0.0	0.0	0.0	0.0
31°	1568.6	113.1	3.4	0.0	0.0	0.0	0.0	0.0
32°	1480.0	102.9	2.7	0.0	0.0	0.0	0.0	0.0
33°	1361.5	92.0	1.4	0.0	0.0	0.0	0.0	0.0
34°	1214.9	81.1	0.7	0.0	0.0	0.0	0.0	0.0
35°	1050.7	71.5	0.0	0.0	0.0	0.0	0.0	0.0
36°	909.7	61.3	0.0	0.0	0.0	0.0	0.0	0.0
37°	767.9	49.1	0.0	0.0	0.0	0.0	0.0	0.0
38°	643.2	38.8	0.0	0.0	0.0	0.0	0.0	0.0
39°	532.2	31.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	440.9	21.1	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	243.9	14.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	147.9	8.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	85.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	32.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.7	1.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.7	1.4	0.7	0.0	0.0	0.0
65°	0.0	0.0	1.4	1.4	0.7	0.0	0.0	0.0
67.5°	0.0	0.0	1.4	2.0	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0



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	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.0	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.0	0.7	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)