

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: P1316369

Luminaire Tested: LDSQA3D09R159740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316369
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: LDSQA3D09R159740DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

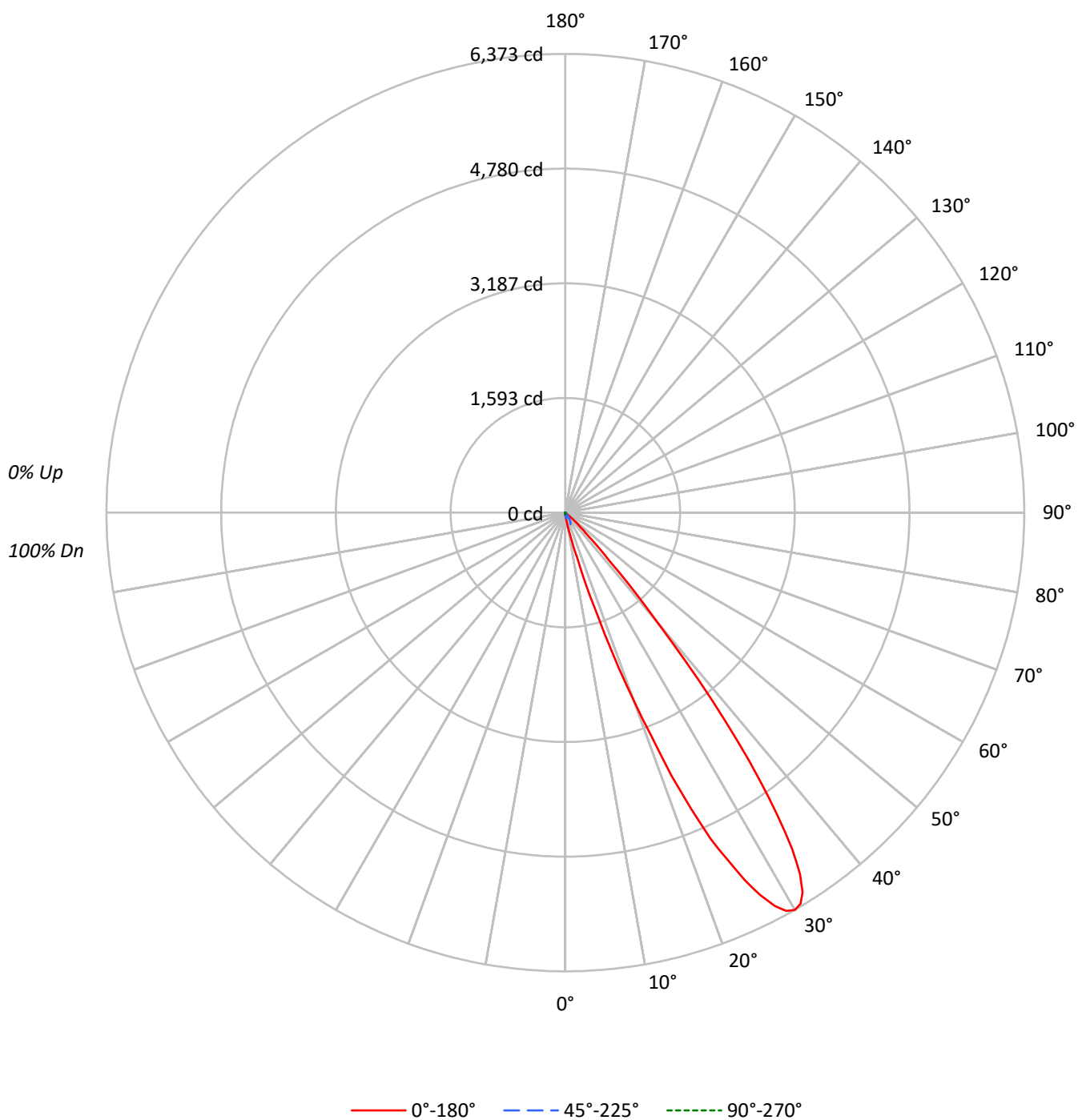
Lumens per Lamp: N/A
Luminaire Lumens: 674.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4151	4151	4151	4151	4151
5°	12015	9059	3561	1469	985
10°	31233	13518	2361	0	0
15°	124844	22109	1266	0	0
20°	510111	32605	385	0	0
25°	1008357	32324	0	0	0
30°	1267390	25514	0	0	0
35°	1081374	15642	0	0	0
40°	445190	4946	0	0	0
45°	96328	2070	0	0	0
50°	12352	0	0	0	0
55°	1051	0	210	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	352	1057	0	0
75°	0	466	1397	0	0
80°	0	694	2083	0	0
85°	0	1383	4150	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 100809 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.5
10°-20°	47.2	7.0
20°-30°	275.3	40.8
30°-40°	295.2	43.8
40°-50°	49.8	7.4
50°-60°	1.5	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°	325.8	48.3
0°-40°	621.0	92.1
0°-60°	672.3	99.8
0°-90°	674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	70	52	21	8	6	10
15°	700	124	7	0	0	324
25°	5306	170	0	0	0	2401
35°	5143	74	0	0	0	2956
45°	396	8	0	0	0	467
55°	4	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°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
2.5°	43.9	44.7	45.4	45.4	45.4	45.4	44.7	44.7	44.7	44.7	43.9
5°	69.5	69.5	69.5	69.5	69.5	69.5	68.7	68.7	68.7	68.7	68.7
7.5°	99.2	97.8	98.5	96.4	97.8	97.1	96.4	97.8	97.8	94.3	94.3
10°	178.6	177.9	170.8	172.2	173.6	172.9	172.9	168.7	168.0	165.1	162.3
12.5°	344.5	352.2	357.9	357.9	344.5	349.4	340.2	342.3	343.7	339.5	324.6
15°	700.2	713.0	699.5	712.3	707.3	688.9	668.3	640.7	651.3	632.2	625.8
17.5°	1533.7	1562.8	1550.7	1491.9	1511.0	1465.7	1437.3	1426.7	1396.9	1308.3	1271.5
20°	2783.3	2818.7	2785.4	2716.6	2738.6	2652.8	2630.9	2610.3	2478.5	2430.3	2275.8
21°	3309.1	3338.2	3351.0	3279.4	3235.4	3167.4	3110.7	3092.3	3012.2	2919.3	2760.6
22°	3944.2	3910.2	3833.6	3843.5	3778.3	3722.3	3643.7	3569.3	3480.0	3350.2	3219.1
23°	4470.1	4430.4	4394.2	4350.3	4280.1	4240.4	4127.7	4046.2	3930.0	3791.1	3664.9
24°	4959.8	4898.9	4876.2	4798.2	4778.4	4689.1	4597.6	4491.3	4351.0	4202.9	4063.2
25°	5306.4	5315.6	5295.8	5286.5	5185.2	5093.8	5003.0	4839.3	4719.5	4588.4	4373.7
26°	5677.8	5682.0	5672.1	5604.1	5512.6	5423.3	5306.4	5163.9	4990.3	4845.0	4650.8
27°	5962.0	5945.0	5930.8	5850.0	5774.9	5662.2	5555.9	5387.2	5217.8	5044.9	4819.5
28°	6188.8	6156.9	6139.2	6069.7	5981.8	5843.6	5713.2	5555.9	5386.5	5200.8	4957.0
29°	6325.6	6291.6	6271.7	6195.2	6093.8	5972.6	5840.8	5667.9	5485.7	5278.8	5033.5
30°	6373.1	6353.2	6322.0	6242.6	6137.8	6011.6	5876.2	5688.4	5497.8	5285.8	5026.4
31°	6341.9	6316.4	6286.6	6200.8	6087.4	5966.9	5809.6	5612.6	5412.0	5210.0	4935.0
32°	6217.8	6202.2	6166.1	6051.3	5959.1	5803.2	5648.0	5463.7	5244.7	5027.9	4779.1
33°	5985.4	5959.9	5928.7	5823.8	5706.1	5556.6	5402.1	5213.5	4996.0	4767.0	4493.5
34°	5631.0	5598.4	5559.4	5489.2	5339.0	5209.3	5030.7	4810.3	4630.2	4410.5	4163.2
35°	5143.4	5095.9	5049.1	4996.0	4827.3	4707.5	4587.0	4394.9	4221.3	4014.3	3734.4
36°	4596.2	4577.8	4539.5	4399.2	4344.6	4181.6	4084.5	3864.1	3723.8	3521.1	3290.0
37°	3977.5	3869.1	3924.3	3845.7	3681.2	3630.2	3514.7	3325.4	3173.8	2959.7	2792.5
38°	3314.1	3243.2	3282.2	3202.8	3117.1	2999.4	2911.5	2773.3	2603.2	2435.3	2276.5
39°	2626.6	2569.2	2611.7	2557.9	2427.5	2378.6	2300.6	2195.0	2058.2	1927.1	1776.8
40°	1980.2	1906.5	1963.2	1886.7	1827.2	1747.1	1707.4	1610.3	1525.2	1446.6	1350.9
42.5°	904.4	896.6	883.8	856.2	849.8	850.5	801.6	769.7	726.5	676.1	645.7
45°	395.5	405.4	413.9	398.3	397.6	389.1	386.3	365.0	356.5	340.2	320.4
47.5°	194.9	198.4	196.3	200.6	197.0	191.4	189.9	187.1	178.6	177.9	168.7
50°	46.1	45.4	45.4	46.1	45.4	45.4	44.7	43.2	42.5	43.2	41.1
52.5°	14.9	15.6	14.9	14.2	14.9	15.6	14.9	14.9	14.9	14.9	14.9
55°	3.5	3.5	3.5	3.5	3.5	3.5	2.8	2.8	3.5	3.5	3.5
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°	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
2.5°	43.2	36.9	30.5	24.1	17.7	14.2	13.5	12.8
5°	65.2	52.4	34.7	20.6	12.0	8.5	6.4	5.7
7.5°	87.9	65.2	38.3	17.0	8.5	3.5	1.4	0.7
10°	126.2	77.3	39.7	13.5	4.3	0.0	0.0	0.0
12.5°	247.4	88.6	39.0	10.6	0.7	0.0	0.0	0.0
15°	411.1	124.0	36.1	7.1	0.0	0.0	0.0	0.0
17.5°	673.3	160.2	31.2	5.0	0.0	0.0	0.0	0.0
20°	1044.0	177.9	24.1	2.1	0.0	0.0	0.0	0.0
21°	1224.0	179.3	21.3	1.4	0.0	0.0	0.0	0.0
22°	1379.9	179.3	18.4	0.7	0.0	0.0	0.0	0.0
23°	1524.5	177.2	16.3	0.0	0.0	0.0	0.0	0.0
24°	1643.6	174.4	14.9	0.0	0.0	0.0	0.0	0.0
25°	1732.9	170.1	13.5	0.0	0.0	0.0	0.0	0.0
26°	1774.0	164.4	11.3	0.0	0.0	0.0	0.0	0.0
27°	1794.5	156.6	9.9	0.0	0.0	0.0	0.0	0.0
28°	1780.4	148.1	8.5	0.0	0.0	0.0	0.0	0.0
29°	1744.9	138.9	6.4	0.0	0.0	0.0	0.0	0.0
30°	1698.9	128.3	5.0	0.0	0.0	0.0	0.0	0.0
31°	1631.5	117.7	3.5	0.0	0.0	0.0	0.0	0.0
32°	1539.4	107.0	2.8	0.0	0.0	0.0	0.0	0.0
33°	1416.1	95.7	1.4	0.0	0.0	0.0	0.0	0.0
34°	1263.7	84.3	0.7	0.0	0.0	0.0	0.0	0.0
35°	1092.9	74.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	946.2	63.8	0.0	0.0	0.0	0.0	0.0	0.0
37°	798.8	51.0	0.0	0.0	0.0	0.0	0.0	0.0
38°	669.1	40.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	553.5	32.6	0.0	0.0	0.0	0.0	0.0	0.0
40°	458.6	22.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	253.7	14.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	153.8	8.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	89.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.8	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	2.1	0.7	0.0	0.0	0.0
70°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
72.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
75°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
77.5°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
80°	0.0	0.7	1.4	2.1	0.7	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	0.7	1.4	2.1	0.7	0.0	0.0	0.0
85°	0.0	0.7	1.4	2.1	0.7	0.0	0.0	0.0
87.5°	0.0	0.7	1.4	2.1	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)