

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: P1320068

Luminaire Tested: LDSQA3D13R209840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R209840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

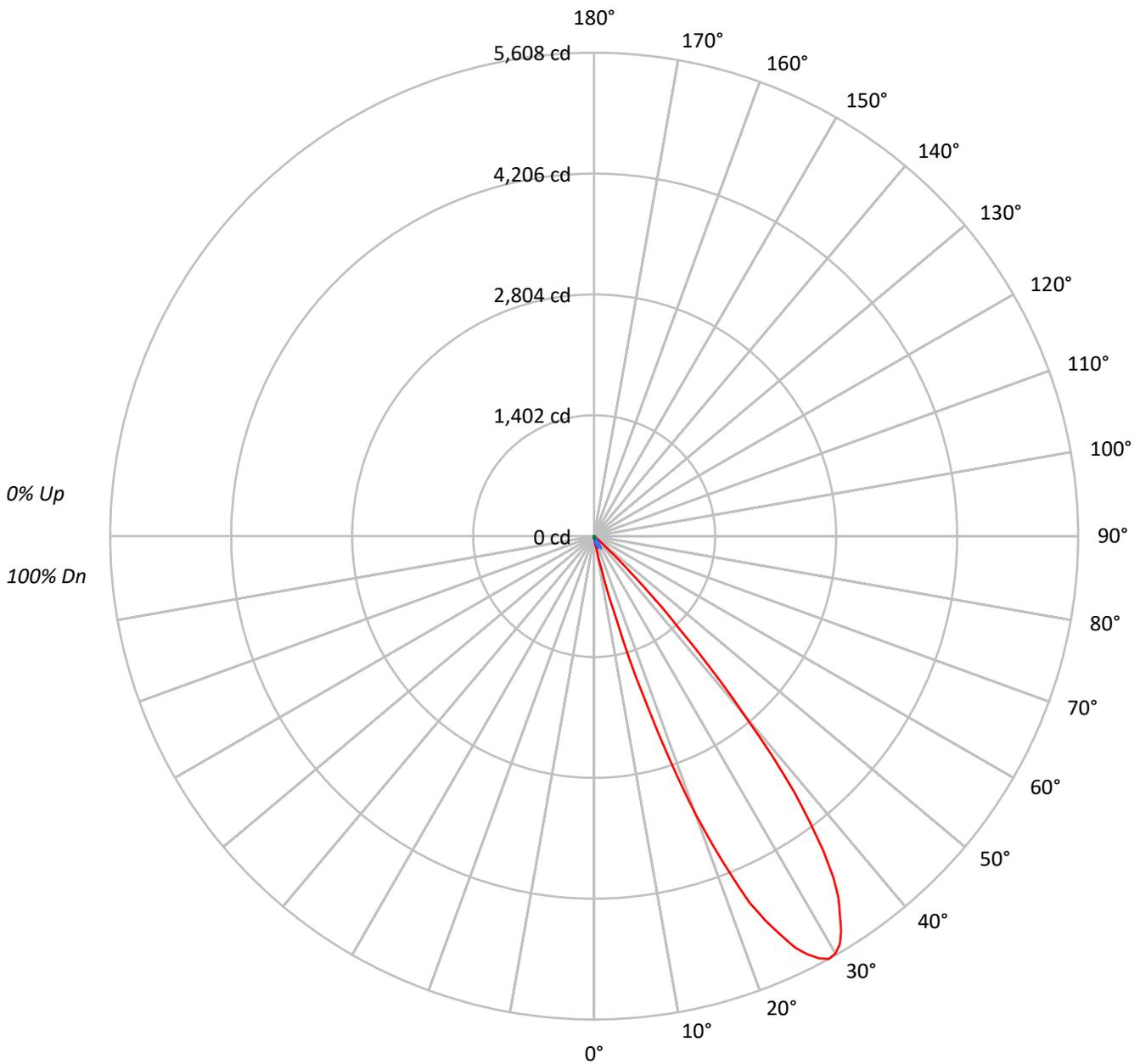
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 774.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
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 (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°-180° - - - 45°-225° ····· 90°-270°



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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	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4771	4771	4771	4771	4771
5°	10373	7313	4391	1988	1469
10°	25847	12924	3095	402	0
15°	181846	17705	1783	0	0
20°	628507	29764	696	0	0
25°	968794	38024	285	0	0
30°	1111977	29392	0	0	0
35°	1015547	11164	0	0	0
40°	608837	5193	0	0	0
45°	149619	2436	0	0	0
50°	16505	616	0	0	0
55°	2312	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: 1°
 Vertical Angle: 45°
 Luminance: 159556 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.4
10°-20°	60.5	7.8
20°-30°	305.8	39.5
30°-40°	330.8	42.7
40°-50°	69.9	9.0
50°-60°	2.1	0.3
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°	369.4	47.7
0°-40°	700.2	90.5
0°-60°	772.1	99.8
0°-90°	774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	60	42	25	12	8	8
15°	1020	99	10	0	0	425
25°	5098	200	2	0	0	2304
35°	4830	53	0	0	0	2848
45°	614	10	0	0	0	676
55°	8	0	1	0	0	14
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°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	37.7	36.9	37.7	36.9	37.7	37.7	37.7	36.9	36.9	36.9	36.9
5°	60.0	60.0	59.3	60.0	60.0	60.0	60.0	59.3	59.3	58.5	58.5
7.5°	94.7	94.7	93.9	93.9	94.7	95.5	92.4	93.9	93.9	93.9	93.1
10°	147.8	150.9	147.8	151.6	148.6	146.3	150.1	146.3	146.3	145.5	143.2
12.5°	372.6	364.1	358.7	345.6	358.7	348.7	351.0	348.7	341.0	331.0	324.8
15°	1019.9	1019.9	989.9	1030.0	1000.7	1011.5	956.1	956.8	928.3	897.6	880.6
17.5°	2132.3	2151.5	2131.5	2119.2	2093.0	2055.3	2039.9	2000.6	1949.1	1889.0	1882.1
20°	3429.3	3348.5	3386.2	3351.6	3330.0	3283.8	3232.3	3199.9	3154.5	3078.3	2965.9
21°	3837.3	3834.2	3833.5	3832.7	3801.1	3725.7	3678.7	3614.1	3550.2	3471.7	3377.8
22°	4248.4	4263.0	4269.1	4224.5	4159.8	4126.0	4093.6	4005.1	3904.3	3863.5	3751.9
23°	4625.5	4611.7	4571.7	4550.9	4500.8	4490.8	4394.6	4338.4	4239.9	4195.2	4062.8
24°	4882.7	4875.7	4857.3	4826.5	4786.4	4724.8	4667.1	4578.6	4497.8	4424.6	4301.5
25°	5098.2	5104.3	5070.5	5049.7	5006.6	4937.3	4866.5	4769.5	4694.1	4608.6	4466.2
26°	5311.4	5268.3	5241.4	5210.6	5163.6	5084.3	5015.8	4928.8	4837.2	4741.8	4602.5
27°	5443.0	5404.6	5363.8	5333.7	5279.9	5204.4	5131.3	5035.1	4932.7	4836.5	4693.3
28°	5547.0	5504.6	5464.6	5428.4	5366.8	5286.0	5198.3	5100.5	4994.3	4895.0	4748.7
29°	5608.5	5558.5	5515.4	5474.6	5418.4	5330.7	5242.1	5137.4	5035.1	4931.1	4781.8
30°	5591.6	5548.5	5506.9	5465.4	5408.4	5326.0	5238.3	5138.2	5035.1	4932.7	4781.0
31°	5525.4	5472.3	5442.3	5400.7	5351.4	5267.5	5192.1	5082.8	4989.7	4878.8	4727.2
32°	5398.4	5364.5	5324.5	5292.2	5244.4	5155.2	5081.3	4992.0	4881.9	4791.0	4631.7
33°	5226.0	5194.4	5174.4	5136.7	5090.5	5028.9	4940.4	4858.8	4734.9	4641.7	4482.4
34°	5061.2	5021.2	4971.2	4960.4	4920.4	4841.1	4761.0	4677.9	4567.0	4448.5	4287.6
35°	4830.3	4788.7	4742.6	4746.4	4698.7	4606.3	4524.7	4431.6	4326.1	4186.8	4034.4
36°	4521.6	4493.9	4487.0	4468.5	4413.9	4303.8	4226.0	4109.0	4020.5	3850.4	3719.5
37°	4145.2	4155.2	4105.2	4081.3	4017.4	3940.5	3896.6	3746.5	3643.3	3515.5	3338.5
38°	3764.9	3750.3	3691.0	3705.7	3617.9	3537.9	3413.9	3324.6	3209.2	3090.6	2949.0
39°	3290.0	3253.8	3183.0	3186.1	3119.9	3029.8	2909.7	2804.3	2735.0	2621.1	2485.6
40°	2708.1	2692.7	2668.0	2627.2	2540.2	2501.0	2394.0	2280.1	2221.6	2063.8	1997.6
42.5°	1502.6	1481.8	1440.2	1425.6	1379.4	1333.2	1270.9	1194.7	1157.7	1110.8	1006.1
45°	614.3	655.1	645.1	633.5	598.1	600.4	555.8	561.2	520.4	492.7	473.4
47.5°	135.5	147.0	147.8	142.4	147.8	143.2	140.9	137.0	137.8	140.1	134.7
50°	61.6	60.8	62.4	61.6	60.8	60.0	59.3	57.0	58.5	57.0	55.4
52.5°	23.9	24.6	24.6	23.1	23.9	23.9	23.9	23.1	23.1	23.1	23.1
55°	7.7	7.7	7.7	6.9	6.9	7.7	7.7	7.7	7.7	7.7	6.9
57.5°	0.8	1.5	0.8	1.5	0.8	0.8	0.8	0.8	0.8	1.5	1.5
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



TEST NUMBER: P1320068

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.7
2.5°	35.4	32.3	30.0	27.7	23.1	19.2	17.7	17.7
5°	54.7	42.3	31.6	25.4	17.7	11.5	9.2	8.5
7.5°	82.4	57.0	33.1	21.6	11.5	6.2	3.8	3.1
10°	119.3	73.9	34.6	17.7	6.9	2.3	0.0	0.0
12.5°	208.6	88.5	34.6	13.9	3.1	0.0	0.0	0.0
15°	478.0	99.3	33.1	10.0	0.8	0.0	0.0	0.0
17.5°	993.0	124.7	29.3	6.9	0.0	0.0	0.0	0.0
20°	1585.7	162.4	23.1	3.8	0.0	0.0	0.0	0.0
21°	1829.7	175.5	20.8	3.1	0.0	0.0	0.0	0.0
22°	2005.3	187.8	18.5	2.3	0.0	0.0	0.0	0.0
23°	2198.5	195.5	16.2	1.5	0.0	0.0	0.0	0.0
24°	2340.9	200.1	13.9	1.5	0.0	0.0	0.0	0.0
25°	2429.4	200.1	12.3	1.5	0.0	0.0	0.0	0.0
26°	2481.7	195.5	10.8	0.8	0.0	0.0	0.0	0.0
27°	2494.1	187.8	9.2	0.8	0.0	0.0	0.0	0.0
28°	2478.7	177.8	7.7	0.0	0.0	0.0	0.0	0.0
29°	2430.2	163.2	6.9	0.0	0.0	0.0	0.0	0.0
30°	2377.8	147.8	5.4	0.0	0.0	0.0	0.0	0.0
31°	2288.5	127.0	4.6	0.0	0.0	0.0	0.0	0.0
32°	2185.4	105.5	3.8	0.0	0.0	0.0	0.0	0.0
33°	2047.6	83.1	3.1	0.0	0.0	0.0	0.0	0.0
34°	1844.4	65.4	3.1	0.0	0.0	0.0	0.0	0.0
35°	1661.9	53.1	2.3	0.0	0.0	0.0	0.0	0.0
36°	1423.3	42.3	2.3	0.0	0.0	0.0	0.0	0.0
37°	1219.3	35.4	2.3	0.0	0.0	0.0	0.0	0.0
38°	1020.7	30.0	1.5	0.0	0.0	0.0	0.0	0.0
39°	828.3	26.2	1.5	0.0	0.0	0.0	0.0	0.0
40°	660.5	23.1	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	356.4	15.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	197.1	10.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	87.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	29.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.9	0.0	0.0	0.8	0.0	0.0	0.0	0.0
57.5°	1.5	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	0.8	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)