

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: P1327614

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQCA30R 1MMS_6500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327614
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: LDSQA3D13R20W2N902765DE010 3LSQCA30R 1MMS_6500K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 6500K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

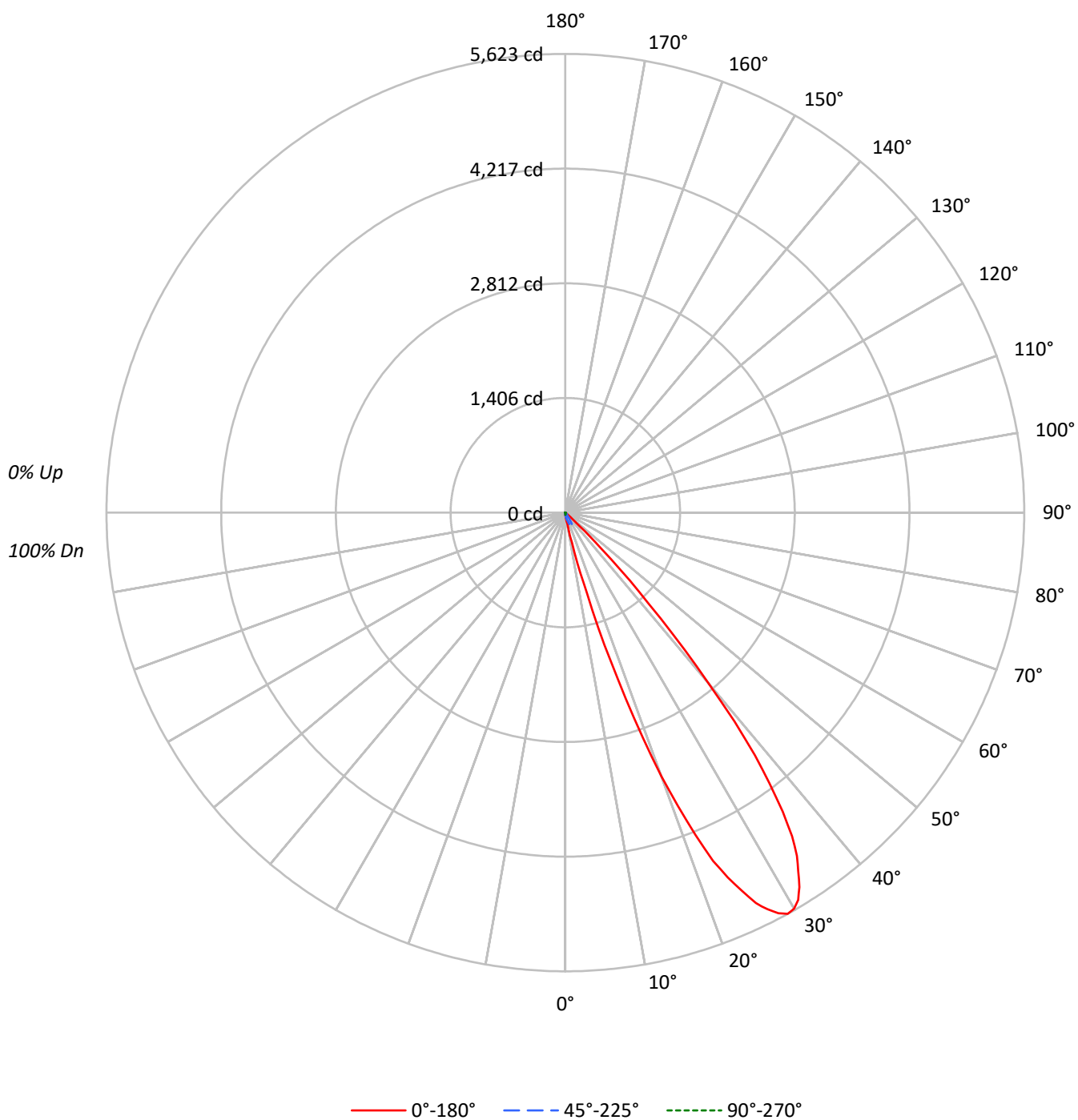
Lumens per Lamp: N/A
Luminaire Lumens: 776.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 12.3
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	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4788	4788	4788	4788	4788
5°	10407	7330	4408	2005	1469
10°	25917	12959	3113	402	0
15°	182328	17758	1783	0	0
20°	630138	29837	715	0	0
25°	971302	38138	285	0	0
30°	1114860	29472	0	0	0
35°	1018175	11206	0	0	0
40°	610388	5216	0	0	0
45°	150008	2436	0	0	0
50°	16531	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: 159970 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.4
10°-20°	60.6	7.8
20°-30°	306.6	39.5
30°-40°	331.7	42.7
40°-50°	70.1	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°	370.3	47.7
0°-40°	702.0	90.5
0°-60°	774.1	99.8
0°-90°	776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	60	42	26	12	8	8
15°	1023	100	10	0	0	426
25°	5111	201	2	0	0	2310
35°	4843	53	0	0	0	2856
45°	616	10	0	0	0	677
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°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	37.8	37.0	37.8	37.0	37.8	37.8	37.8	37.0	37.0	37.0	37.0
5°	60.2	60.2	59.4	60.2	60.2	60.2	60.2	59.4	59.4	58.7	58.7
7.5°	94.9	94.9	94.2	94.2	94.9	95.7	92.6	94.2	94.2	94.2	93.4
10°	148.2	151.3	148.2	152.0	148.9	146.6	150.5	146.6	146.6	145.9	143.5
12.5°	373.5	365.0	359.6	346.5	359.6	349.6	351.9	349.6	341.9	331.9	325.7
15°	1022.6	1022.6	992.5	1032.6	1003.3	1014.1	958.5	959.3	930.7	899.9	882.9
17.5°	2137.8	2157.1	2137.0	2124.7	2098.4	2060.6	2045.2	2005.8	1954.1	1893.9	1887.0
20°	3438.2	3357.2	3395.0	3360.2	3338.6	3292.3	3240.6	3208.2	3162.7	3086.3	2973.6
21°	3847.2	3844.1	3843.4	3842.6	3810.9	3735.3	3688.2	3623.4	3559.4	3480.6	3386.5
22°	4259.3	4274.0	4280.2	4235.4	4170.6	4136.6	4104.2	4015.5	3914.4	3873.5	3761.6
23°	4637.5	4623.6	4583.5	4562.6	4512.5	4502.4	4406.0	4349.6	4250.9	4206.1	4073.3
24°	4895.3	4888.3	4869.8	4838.9	4798.8	4737.1	4679.2	4590.4	4509.4	4436.1	4312.6
25°	5111.4	5117.5	5083.6	5062.7	5019.5	4950.1	4879.1	4781.8	4706.2	4620.5	4477.7
26°	5325.1	5281.9	5254.9	5224.0	5177.0	5097.5	5028.8	4941.6	4849.7	4754.0	4614.3
27°	5457.1	5418.5	5377.6	5347.5	5293.5	5217.9	5144.5	5048.1	4945.4	4849.0	4705.4
28°	5561.3	5518.9	5478.7	5442.4	5380.7	5299.7	5211.7	5113.7	5007.2	4907.6	4761.0
29°	5623.0	5572.9	5529.7	5488.8	5432.4	5344.4	5255.7	5150.7	5048.1	4943.9	4794.2
30°	5606.1	5562.8	5521.2	5479.5	5422.4	5339.8	5251.8	5151.5	5048.1	4945.4	4793.4
31°	5539.7	5486.4	5456.3	5414.7	5365.3	5281.1	5205.5	5095.9	5002.5	4891.4	4739.4
32°	5412.3	5378.4	5338.3	5305.8	5258.0	5168.5	5094.4	5004.9	4894.5	4803.4	4643.7
33°	5239.5	5207.8	5187.8	5149.9	5103.6	5041.9	4953.2	4871.3	4747.1	4653.7	4494.0
34°	5074.3	5034.2	4984.0	4973.2	4933.1	4853.6	4773.3	4690.0	4578.8	4460.0	4298.7
35°	4842.8	4801.1	4754.8	4758.7	4710.8	4618.2	4536.4	4443.0	4337.3	4197.6	4044.8
36°	4533.3	4505.5	4498.6	4480.1	4425.3	4314.9	4237.0	4119.7	4030.9	3860.3	3729.1
37°	4155.9	4166.0	4115.8	4091.9	4027.8	3950.6	3906.6	3756.2	3652.7	3524.6	3347.1
38°	3774.7	3760.0	3700.6	3715.2	3627.3	3547.0	3422.8	3333.2	3217.5	3098.6	2956.6
39°	3298.5	3262.2	3191.2	3194.3	3127.9	3037.6	2917.3	2811.5	2742.1	2627.8	2492.0
40°	2715.0	2699.6	2674.9	2634.0	2546.8	2507.4	2400.2	2286.0	2227.3	2069.1	2002.7
42.5°	1506.5	1485.6	1444.0	1429.3	1383.0	1336.7	1274.2	1197.8	1160.7	1113.6	1008.7
45°	615.9	656.8	646.7	635.2	599.7	602.0	557.2	562.6	521.7	493.9	474.6
47.5°	135.8	147.4	148.2	142.8	148.2	143.5	141.2	137.4	138.1	140.5	135.1
50°	61.7	61.0	62.5	61.7	61.0	60.2	59.4	57.1	58.7	57.1	55.6
52.5°	23.9	24.7	24.7	23.2	23.9	23.9	23.9	23.2	23.2	23.2	23.2
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

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	27.8	27.8	27.8	27.8	27.8	27.8	27.8	27.8
2.5°	35.5	32.4	30.1	27.8	23.2	19.3	17.8	17.8
5°	54.8	42.4	31.6	25.5	17.8	11.6	9.3	8.5
7.5°	82.6	57.1	33.2	21.6	11.6	6.2	3.9	3.1
10°	119.6	74.1	34.7	17.8	6.9	2.3	0.0	0.0
12.5°	209.1	88.8	34.7	13.9	3.1	0.0	0.0	0.0
15°	479.3	99.6	33.2	10.0	0.8	0.0	0.0	0.0
17.5°	995.6	125.0	29.3	6.9	0.0	0.0	0.0	0.0
20°	1589.8	162.8	23.2	3.9	0.0	0.0	0.0	0.0
21°	1834.5	176.0	20.8	3.1	0.0	0.0	0.0	0.0
22°	2010.4	188.3	18.5	2.3	0.0	0.0	0.0	0.0
23°	2204.1	196.0	16.2	1.5	0.0	0.0	0.0	0.0
24°	2346.9	200.7	13.9	1.5	0.0	0.0	0.0	0.0
25°	2435.7	200.7	12.3	1.5	0.0	0.0	0.0	0.0
26°	2488.2	196.0	10.8	0.8	0.0	0.0	0.0	0.0
27°	2500.5	188.3	9.3	0.8	0.0	0.0	0.0	0.0
28°	2485.1	178.3	7.7	0.0	0.0	0.0	0.0	0.0
29°	2436.4	163.6	6.9	0.0	0.0	0.0	0.0	0.0
30°	2384.0	148.2	5.4	0.0	0.0	0.0	0.0	0.0
31°	2294.4	127.3	4.6	0.0	0.0	0.0	0.0	0.0
32°	2191.0	105.7	3.9	0.0	0.0	0.0	0.0	0.0
33°	2052.9	83.4	3.1	0.0	0.0	0.0	0.0	0.0
34°	1849.1	65.6	3.1	0.0	0.0	0.0	0.0	0.0
35°	1666.2	53.3	2.3	0.0	0.0	0.0	0.0	0.0
36°	1427.0	42.4	2.3	0.0	0.0	0.0	0.0	0.0
37°	1222.5	35.5	2.3	0.0	0.0	0.0	0.0	0.0
38°	1023.4	30.1	1.5	0.0	0.0	0.0	0.0	0.0
39°	830.4	26.2	1.5	0.0	0.0	0.0	0.0	0.0
40°	662.2	23.2	1.5	0.0	0.0	0.0	0.0	0.0
42.5°	357.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	197.6	10.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	87.2	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°	14.7	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)