

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: P1327609

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327609
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_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

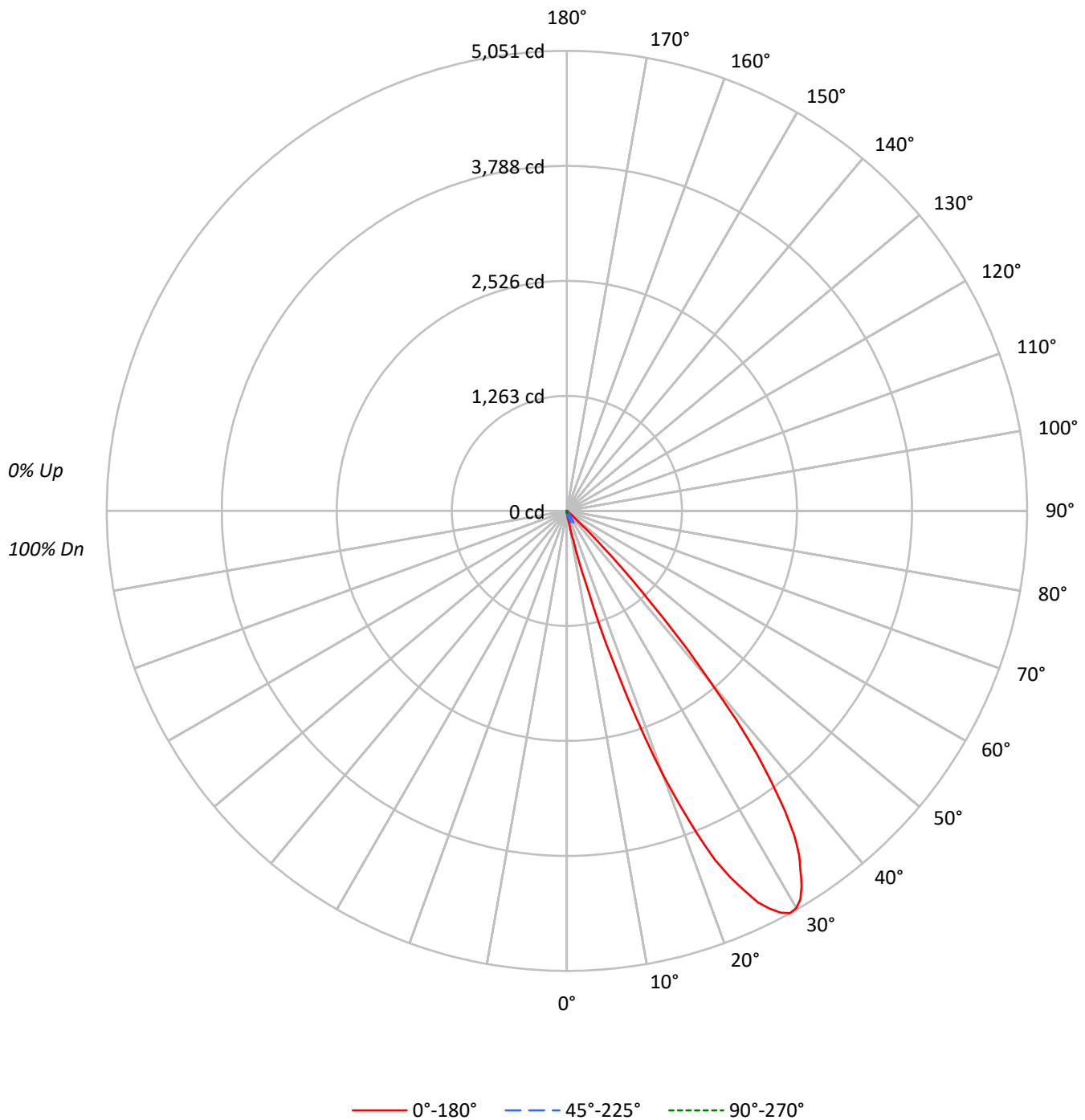
Lumens per Lamp: N/A
Luminaire Lumens: 697.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
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	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	49
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°	4306	4306	4306	4306	4306
5°	9353	6587	3959	1798	1314
10°	23276	11629	2781	367	0
15°	163767	15940	1605	0	0
20°	565991	26813	641	0	0
25°	872412	34243	266	0	0
30°	1001348	26469	0	0	0
35°	914524	10050	0	0	0
40°	548248	4676	0	0	0
45°	134737	2192	0	0	0
50°	14870	563	0	0	0
55°	2072	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: 1°

Vertical Angle: 45°

Luminance: 143676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.4
10°-20°	54.4	7.8
20°-30°	275.3	39.5
30°-40°	297.9	42.7
40°-50°	62.9	9.0
50°-60°	1.9	0.3
60°-70°	0.5	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°	332.6	47.7
0°-40°	630.5	90.5
0°-60°	695.3	99.8
0°-90°	697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	54	38	23	10	8	8
15°	918	89	9	0	0	383
25°	4591	180	1	0	0	2075
35°	4350	48	0	0	0	2565
45°	553	9	0	0	0	609
55°	7	0	1	0	0	12
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°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	34.0	33.3	34.0	33.3	34.0	34.0	34.0	33.3	33.3	33.3	33.3
5°	54.1	54.1	53.4	54.1	54.1	54.1	54.1	53.4	53.4	52.7	52.7
7.5°	85.3	85.3	84.6	84.6	85.3	86.0	83.2	84.6	84.6	84.6	83.9
10°	133.1	135.9	133.1	136.6	133.8	131.7	135.2	131.7	131.7	131.0	128.9
12.5°	335.5	327.9	323.0	311.2	323.0	314.0	316.1	314.0	307.1	298.1	292.5
15°	918.5	918.5	891.4	927.5	901.1	910.9	860.9	861.6	836.0	808.3	793.0
17.5°	1920.1	1937.5	1919.4	1908.4	1884.8	1850.8	1837.0	1801.6	1755.2	1701.1	1694.9
20°	3088.2	3015.4	3049.3	3018.2	2998.7	2957.2	2910.7	2881.6	2840.7	2772.1	2670.9
21°	3455.6	3452.8	3452.1	3451.4	3423.0	3355.0	3312.8	3254.5	3197.0	3126.3	3041.7
22°	3825.7	3838.9	3844.4	3804.2	3746.0	3715.5	3686.4	3606.7	3515.9	3479.1	3378.6
23°	4165.4	4152.9	4116.9	4098.1	4053.1	4044.1	3957.4	3906.8	3818.1	3777.9	3658.7
24°	4396.9	4390.7	4374.0	4346.3	4310.3	4254.8	4202.8	4123.1	4050.3	3984.5	3873.6
25°	4591.0	4596.5	4566.0	4547.3	4508.5	4446.1	4382.4	4295.0	4227.1	4150.1	4021.9
26°	4783.0	4744.2	4719.9	4692.2	4649.9	4578.5	4516.8	4438.5	4356.0	4270.1	4144.6
27°	4901.6	4866.9	4830.2	4803.1	4754.6	4686.7	4620.8	4534.2	4442.0	4355.3	4226.4
28°	4995.1	4957.0	4921.0	4888.4	4832.9	4760.1	4681.1	4593.1	4497.4	4408.0	4276.3
29°	5050.6	5005.5	4966.7	4930.0	4879.4	4800.3	4720.6	4626.4	4534.2	4440.6	4306.1
30°	5035.3	4996.5	4959.1	4921.7	4870.4	4796.2	4717.2	4627.1	4534.2	4442.0	4305.4
31°	4975.7	4927.9	4900.9	4863.4	4819.1	4743.5	4675.6	4577.1	4493.3	4393.4	4256.9
32°	4861.3	4830.8	4794.8	4765.7	4722.7	4642.3	4575.8	4495.3	4396.2	4314.4	4170.9
33°	4706.1	4677.7	4659.6	4625.7	4584.1	4528.6	4448.9	4375.4	4263.8	4179.9	4036.5
34°	4557.7	4521.7	4476.6	4466.9	4430.9	4359.5	4287.4	4212.5	4112.7	4006.0	3861.1
35°	4349.8	4312.3	4270.7	4274.2	4231.2	4148.1	4074.6	3990.7	3895.7	3770.3	3633.0
36°	4071.8	4046.8	4040.6	4024.0	3974.8	3875.6	3805.6	3700.3	3620.5	3467.3	3349.5
37°	3732.8	3741.8	3696.8	3675.3	3617.8	3548.4	3508.9	3373.8	3280.9	3165.8	3006.4
38°	3390.4	3377.2	3323.9	3337.0	3258.0	3185.9	3074.3	2993.9	2889.9	2783.2	2655.6
39°	2962.7	2930.1	2866.3	2869.1	2809.5	2728.4	2620.3	2525.3	2462.9	2360.3	2238.3
40°	2438.6	2424.8	2402.6	2365.9	2287.5	2252.2	2155.8	2053.2	2000.5	1858.4	1798.8
42.5°	1353.1	1334.4	1297.0	1283.8	1242.2	1200.6	1144.5	1075.8	1042.6	1000.3	906.0
45°	553.2	589.9	580.9	570.5	538.6	540.7	500.5	505.3	468.6	443.6	426.3
47.5°	122.0	132.4	133.1	128.2	133.1	128.9	126.9	123.4	124.1	126.2	121.3
50°	55.5	54.8	56.1	55.5	54.8	54.1	53.4	51.3	52.7	51.3	49.9
52.5°	21.5	22.2	22.2	20.8	21.5	21.5	21.5	20.8	20.8	20.8	20.8
55°	6.9	6.9	6.9	6.2	6.2	6.9	6.9	6.9	6.9	6.9	6.2
57.5°	0.7	1.4	0.7	1.4	0.7	0.7	0.7	0.7	0.7	1.4	1.4
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°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
2.5°	31.9	29.1	27.0	25.0	20.8	17.3	15.9	15.9
5°	49.2	38.1	28.4	22.9	15.9	10.4	8.3	7.6
7.5°	74.2	51.3	29.8	19.4	10.4	5.5	3.5	2.8
10°	107.4	66.5	31.2	15.9	6.2	2.1	0.0	0.0
12.5°	187.9	79.7	31.2	12.5	2.8	0.0	0.0	0.0
15°	430.5	89.4	29.8	9.0	0.7	0.0	0.0	0.0
17.5°	894.2	112.3	26.3	6.2	0.0	0.0	0.0	0.0
20°	1428.0	146.3	20.8	3.5	0.0	0.0	0.0	0.0
21°	1647.7	158.0	18.7	2.8	0.0	0.0	0.0	0.0
22°	1805.8	169.1	16.6	2.1	0.0	0.0	0.0	0.0
23°	1979.8	176.1	14.6	1.4	0.0	0.0	0.0	0.0
24°	2108.0	180.2	12.5	1.4	0.0	0.0	0.0	0.0
25°	2187.7	180.2	11.1	1.4	0.0	0.0	0.0	0.0
26°	2234.8	176.1	9.7	0.7	0.0	0.0	0.0	0.0
27°	2245.9	169.1	8.3	0.7	0.0	0.0	0.0	0.0
28°	2232.1	160.1	6.9	0.0	0.0	0.0	0.0	0.0
29°	2188.4	147.0	6.2	0.0	0.0	0.0	0.0	0.0
30°	2141.3	133.1	4.9	0.0	0.0	0.0	0.0	0.0
31°	2060.9	114.4	4.2	0.0	0.0	0.0	0.0	0.0
32°	1968.0	95.0	3.5	0.0	0.0	0.0	0.0	0.0
33°	1843.9	74.9	2.8	0.0	0.0	0.0	0.0	0.0
34°	1660.9	58.9	2.8	0.0	0.0	0.0	0.0	0.0
35°	1496.6	47.8	2.1	0.0	0.0	0.0	0.0	0.0
36°	1281.7	38.1	2.1	0.0	0.0	0.0	0.0	0.0
37°	1098.0	31.9	2.1	0.0	0.0	0.0	0.0	0.0
38°	919.2	27.0	1.4	0.0	0.0	0.0	0.0	0.0
39°	745.9	23.6	1.4	0.0	0.0	0.0	0.0	0.0
40°	594.8	20.8	1.4	0.0	0.0	0.0	0.0	0.0
42.5°	320.9	13.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	177.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	78.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	26.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0
57.5°	1.4	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	0.7	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)