

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: P1312678

Luminaire Tested: LDSQA3D17R209050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R209050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

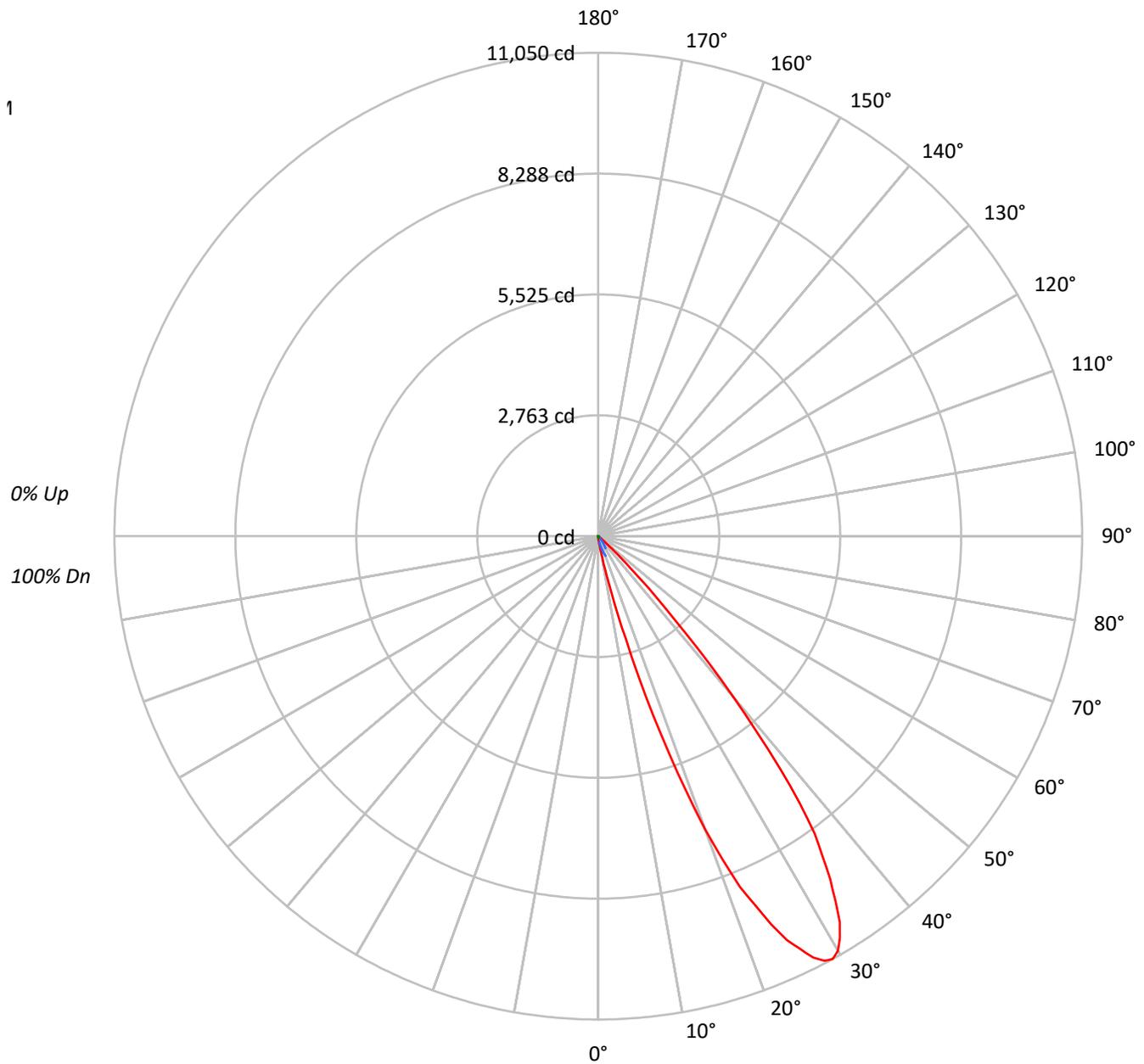
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1549.9 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	100			100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61			61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41			41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9197	9197	9197	9197	9197
5°	21143	15801	8748	5342	4616
10°	66647	27544	7135	2955	2221
15°	431749	50904	5260	998	250
20°	1303052	87111	3611	0	0
25°	1935193	87906	2128	0	0
30°	2176226	66839	835	0	0
35°	1877677	39905	589	0	0
40°	1081230	13602	0	0	0
45°	263726	5480	341	0	341
50°	31643	1500	375	375	1125
55°	4234	0	841	841	1681
60°	482	0	1447	1447	2411
65°	571	571	2282	2282	3423
70°	705	705	2820	2820	3525
75°	0	932	3726	2795	3726
80°	0	1389	4166	2777	4166
85°	0	2766	8299	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 265431 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.5
10°-20°	143.6	9.3
20°-30°	626.1	40.4
30°-40°	630.5	40.7
40°-50°	126.5	8.2
50°-60°	6.3	0.4
60°-70°	4.2	0.3
70°-80°	3.7	0.2
80°-90°	1.9	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°	776.9	50.1
0°-40°	1407.4	90.8
0°-60°	1540.2	99.4
0°-90°	1549.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1549.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	122	91	51	31	27	19
15°	2422	286	30	6	1	948
25°	10184	463	11	0	0	4592
35°	8931	190	3	0	0	5314
45°	1083	22	1	0	1	1179
55°	14	0	3	3	6	26
65°	1	1	6	6	8	1
75°	0	1	6	4	6	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	80.2	80.2	78.7	78.7	77.3	78.7	75.9	77.3	77.3	75.9	68.9
5°	122.3	125.2	123.7	123.7	122.3	123.7	120.9	118.1	115.3	115.3	91.4
7.5°	201.1	199.7	196.9	198.3	194.1	191.2	188.4	187.0	178.6	174.4	119.5
10°	381.1	389.5	382.5	381.1	355.8	354.4	337.5	313.6	292.5	281.2	157.5
12.5°	1049.0	1094.0	1023.7	990.0	970.3	894.4	862.0	779.0	698.9	638.4	199.7
15°	2421.5	2532.6	2390.6	2400.4	2282.3	2065.7	1875.9	1712.8	1520.1	1326.1	285.5
17.5°	4744.6	4654.6	4577.2	4446.5	4206.0	3888.2	3479.0	3064.1	2705.6	2330.1	398.0
20°	7109.8	7029.7	6853.9	6568.4	6261.9	5790.8	5304.3	4681.3	4078.0	3512.7	475.3
21°	7924.0	7897.3	7609.0	7433.3	6960.8	6510.8	5949.7	5283.2	4604.0	3934.6	488.0
22°	8651.0	8490.7	8336.1	8075.9	7606.2	7116.9	6492.5	5790.8	5053.9	4310.1	489.4
23°	9154.5	9081.4	8935.1	8641.2	8174.3	7599.2	6941.1	6207.0	5430.8	4575.8	485.1
24°	9711.3	9618.5	9404.8	9061.7	8590.6	8022.5	7271.5	6543.1	5699.4	4799.4	473.9
25°	10183.8	10039.0	9785.9	9416.0	8901.4	8315.0	7559.8	6759.7	5886.4	4949.9	462.6
26°	10490.4	10411.6	10086.8	9684.6	9133.4	8528.7	7758.1	6925.6	6007.4	5018.8	444.4
27°	10809.6	10664.8	10345.5	9882.9	9285.3	8667.9	7870.6	7005.8	6049.5	5021.6	421.9
28°	10992.4	10834.9	10473.5	9987.0	9383.7	8745.3	7935.3	7031.1	6041.1	4978.0	395.1
29°	11050.1	10851.8	10498.8	10003.8	9407.6	8750.9	7925.4	6994.5	5966.6	4871.1	364.2
30°	10943.2	10740.7	10406.0	9923.7	9331.7	8680.6	7834.0	6873.6	5834.4	4717.9	336.1
31°	10709.8	10538.2	10214.8	9731.0	9162.9	8516.1	7627.3	6675.3	5609.4	4512.6	303.7
32°	10401.8	10233.0	9915.2	9477.9	8899.9	8247.5	7344.7	6365.9	5345.0	4206.0	271.4
33°	9939.1	9842.1	9556.7	9139.0	8561.1	7863.6	6965.0	5996.1	4968.2	3865.7	243.3
34°	9470.9	9348.5	9148.9	8691.8	8070.3	7374.2	6470.0	5485.7	4508.3	3484.6	216.6
35°	8930.9	8857.8	8544.2	8178.6	7554.2	6842.7	5944.1	4989.3	3972.6	3059.9	189.8
36°	8407.8	8295.3	7938.1	7551.4	6945.3	6176.1	5288.8	4391.6	3509.9	2662.0	161.7
37°	7648.4	7476.9	7222.3	6814.5	6105.8	5450.5	4640.5	3808.0	2940.4	2231.7	130.8
38°	6755.5	6675.3	6322.4	5911.7	5325.3	4703.8	3902.3	3196.3	2425.7	1863.2	99.8
39°	5702.2	5700.8	5363.3	5066.6	4492.9	3933.2	3210.4	2594.5	2002.5	1500.4	77.3
40°	4809.3	4643.3	4435.2	4062.6	3622.4	3147.1	2514.3	2030.6	1553.9	1209.3	60.5
42.5°	2521.3	2507.3	2384.9	2105.1	1859.0	1579.2	1255.8	1046.2	818.4	666.5	38.0
45°	1082.8	1089.8	1005.4	963.3	867.6	750.9	634.2	528.7	452.8	367.0	22.5
47.5°	274.2	263.0	260.2	270.0	270.0	261.6	234.8	220.8	203.9	187.0	12.7
50°	118.1	115.3	112.5	112.5	105.5	101.2	94.2	85.8	78.7	70.3	5.6
52.5°	43.6	45.0	46.4	45.0	45.0	43.6	43.6	42.2	38.0	33.7	2.8
55°	14.1	14.1	14.1	15.5	15.5	16.9	16.9	16.9	16.9	15.5	0.0
57.5°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	0.0
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	1.4	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.0	0.0	0.0	1.4	0.0	1.4	1.4	0.0	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	61.9	54.8	46.4	39.4	38.0	36.6
5°	68.9	50.6	38.0	30.9	28.1	26.7
7.5°	74.5	46.4	30.9	22.5	19.7	18.3
10°	77.3	40.8	25.3	16.9	12.7	12.7
12.5°	78.7	35.2	18.3	11.2	7.0	7.0
15°	77.3	29.5	14.1	5.6	1.4	1.4
17.5°	70.3	23.9	8.4	1.4	0.0	0.0
20°	60.5	19.7	5.6	0.0	0.0	0.0
21°	57.7	16.9	4.2	0.0	0.0	0.0
22°	53.4	15.5	2.8	0.0	0.0	0.0
23°	49.2	14.1	2.8	0.0	0.0	0.0
24°	45.0	12.7	1.4	0.0	0.0	0.0
25°	42.2	11.2	1.4	0.0	0.0	0.0
26°	39.4	9.8	1.4	0.0	0.0	0.0
27°	35.2	8.4	0.0	0.0	0.0	0.0
28°	32.3	7.0	0.0	0.0	0.0	0.0
29°	28.1	5.6	0.0	0.0	0.0	0.0
30°	23.9	4.2	0.0	0.0	0.0	0.0
31°	19.7	4.2	0.0	0.0	0.0	0.0
32°	16.9	2.8	0.0	0.0	0.0	0.0
33°	14.1	2.8	0.0	0.0	0.0	0.0
34°	12.7	2.8	0.0	0.0	0.0	0.0
35°	11.2	2.8	0.0	0.0	0.0	0.0
36°	8.4	1.4	0.0	0.0	0.0	0.0
37°	7.0	1.4	0.0	0.0	0.0	0.0
38°	5.6	1.4	0.0	0.0	0.0	0.0
39°	4.2	0.0	0.0	0.0	0.0	0.0
40°	4.2	0.0	0.0	0.0	0.0	0.0
42.5°	1.4	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.4	0.0	0.0	1.4	1.4
47.5°	0.0	1.4	0.0	0.0	1.4	2.8
50°	0.0	1.4	1.4	1.4	2.8	4.2
52.5°	0.0	2.8	1.4	1.4	4.2	4.2
55°	1.4	2.8	1.4	2.8	5.6	5.6
57.5°	1.4	2.8	2.8	4.2	5.6	7.0
60°	2.8	4.2	4.2	4.2	7.0	7.0
62.5°	2.8	4.2	5.6	5.6	7.0	8.4
65°	2.8	5.6	5.6	5.6	7.0	8.4
67.5°	4.2	5.6	5.6	5.6	7.0	8.4
70°	4.2	5.6	5.6	5.6	7.0	7.0
72.5°	4.2	5.6	4.2	5.6	5.6	7.0
75°	4.2	5.6	4.2	4.2	5.6	5.6
77.5°	2.8	4.2	4.2	2.8	4.2	4.2
80°	2.8	4.2	2.8	2.8	4.2	4.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.8	4.2	2.8	1.4	2.8	2.8
85°	2.8	4.2	2.8	1.4	1.4	1.4
87.5°	2.8	4.2	2.8	1.4	0.0	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)