

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: P1310613

Luminaire Tested: LDSQA3D20R159035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R159035D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

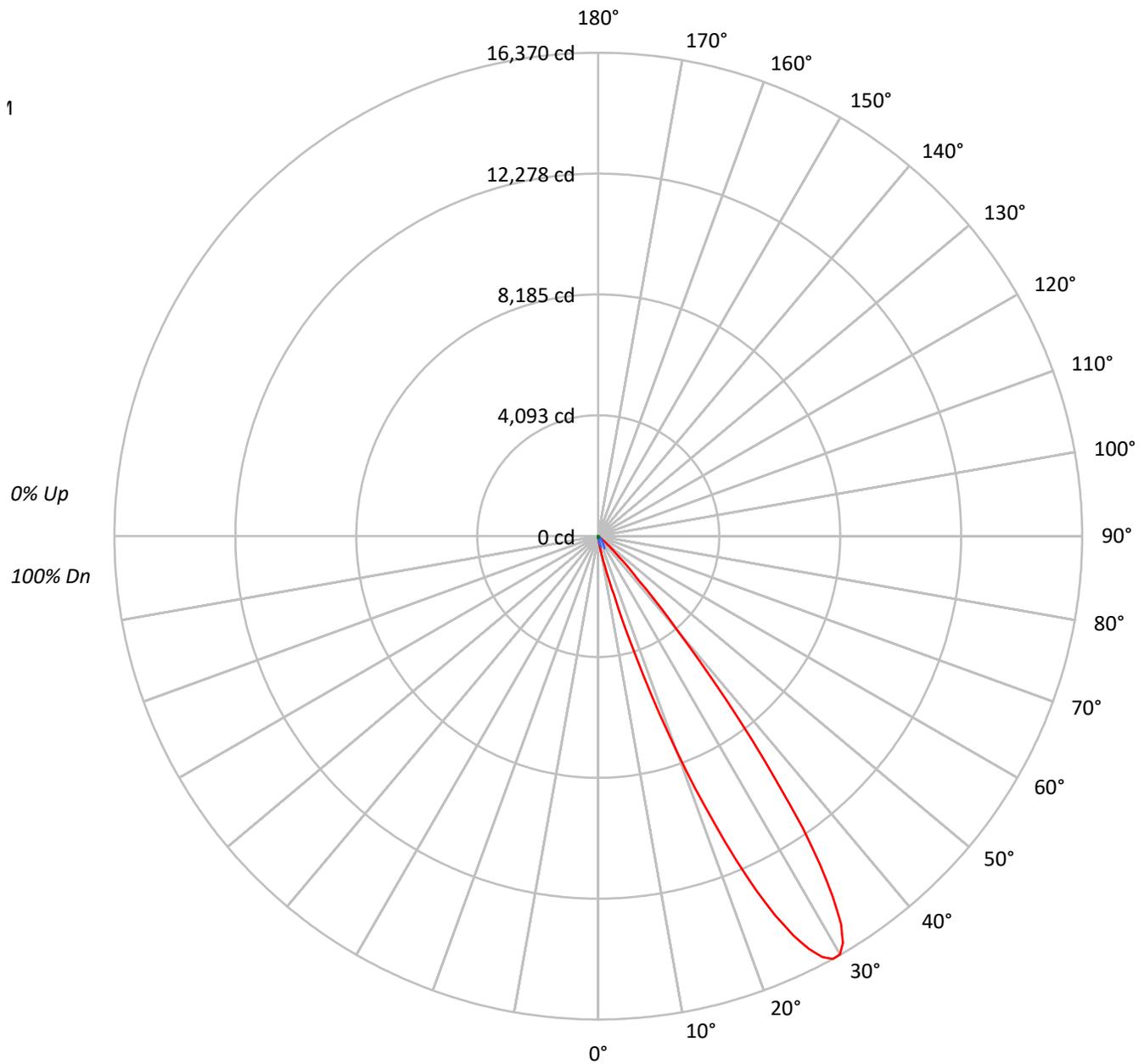
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1788.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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



— 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	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	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	69	64	72	67	64	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10178	10178	10178	10178	10178
5°	21956	16233	9629	5117	4201
10°	97338	30726	7607	2134	1521
15°	368096	71016	5278	927	624
20°	1415638	100087	3189	312	312
25°	2691994	93873	1653	0	0
30°	3251989	75748	696	0	0
35°	2536312	51552	357	0	0
40°	925564	25427	382	0	382
45°	237641	7623	414	0	852
50°	40082	938	455	455	1393
55°	5225	0	1051	1561	2612
60°	586	586	1791	2411	3582
65°	693	693	2853	3545	4238
70°	856	856	3525	3525	4381
75°	1131	1131	4658	3460	4658
80°	0	1686	5157	3471	5157
85°	0	3359	10275	3359	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 237641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.5
10°-20°	137.0	7.7
20°-30°	759.9	42.5
30°-40°	734.1	41.1
40°-50°	127.7	7.1
50°-60°	9.2	0.5
60°-70°	5.4	0.3
70°-80°	4.4	0.2
80°-90°	2.2	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°	905.0	50.6
0°-40°	1639.2	91.7
0°-60°	1776.0	99.3
0°-90°	1788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	127	94	56	30	24	25
15°	2064	398	30	5	4	920
25°	14166	494	9	0	0	6334
35°	12064	245	2	0	0	6938
45°	976	31	2	0	4	1048
55°	17	0	4	5	9	34
65°	2	2	7	9	10	2
75°	2	2	7	5	7	1
85°	0	2	5	2	2	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°	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	87.0	83.5	85.2	85.2	85.2	85.2	85.2	81.7	81.7	83.5	74.8
5°	127.0	127.0	125.2	127.0	127.0	125.2	121.7	120.0	120.0	116.5	93.9
7.5°	253.9	250.5	250.5	247.0	229.6	224.4	220.9	212.2	196.5	193.1	121.7
10°	556.6	558.3	546.1	530.5	528.7	502.7	494.0	478.3	448.7	419.2	175.7
12.5°	1010.5	987.9	958.3	960.1	909.6	892.2	852.2	808.8	763.5	716.6	288.7
15°	2064.5	2000.2	2038.4	1944.5	1838.4	1718.4	1596.7	1443.6	1313.2	1174.0	398.3
17.5°	4348.2	4410.8	4304.7	3902.9	3656.0	3365.5	2956.8	2562.0	2224.5	1953.2	487.0
20°	7724.1	7816.3	7456.3	7106.7	6506.6	5852.7	5170.9	4398.6	3659.4	3019.4	546.1
21°	9134.7	9079.0	8931.2	8371.1	7678.9	6920.6	6085.7	5233.5	4337.8	3506.4	551.4
22°	10498.3	10524.3	10180.0	9593.8	8873.8	8033.7	7014.5	5962.2	4996.9	3902.9	542.7
23°	11856.6	11940.1	11484.4	10934.8	10028.7	9080.8	7901.5	6765.8	5572.6	4356.9	525.3
24°	13114.1	13056.7	12748.9	12056.7	11087.9	9978.2	8753.8	7376.3	6045.7	4744.7	511.3
25°	14166.4	14159.4	13675.9	13002.8	11894.9	10665.2	9315.6	7875.4	6451.0	5007.4	494.0
26°	15027.3	14886.5	14505.5	13684.6	12590.6	11293.1	9776.5	8238.9	6678.8	5139.6	476.6
27°	15691.7	15590.9	15079.5	14225.5	13082.8	11647.9	10072.1	8419.8	6783.2	5183.0	454.0
28°	16138.7	16029.2	15484.8	14604.7	13354.1	11870.5	10228.7	8496.4	6783.2	5141.3	433.1
29°	16370.1	16220.5	15677.8	14735.1	13416.8	11896.6	10190.4	8421.6	6677.1	5012.6	408.7
30°	16352.7	16166.6	15597.8	14616.9	13230.7	11682.7	9976.5	8152.0	6437.1	4821.3	380.9
31°	16070.9	15862.2	15227.3	14216.8	12846.3	11279.2	9573.0	7790.2	6108.3	4572.6	353.1
32°	15498.7	15234.3	14615.1	13608.1	12254.9	10675.7	8986.8	7231.9	5616.1	4209.0	323.5
33°	14566.4	14300.3	13635.9	12691.5	11454.9	9910.4	8209.4	6631.9	5056.1	3776.0	299.2
34°	13399.4	13155.9	12583.7	11632.3	10446.1	8941.6	7315.4	5802.2	4475.2	3346.4	273.1
35°	12063.6	11675.7	11157.4	10404.3	9247.7	7734.6	6350.1	5030.0	3876.8	2895.9	245.2
36°	10256.5	10326.1	9776.5	8854.6	7896.3	6710.1	5381.3	4193.4	3242.0	2468.0	220.9
37°	8654.6	8545.1	8195.5	7482.4	6647.5	5470.0	4509.9	3555.1	2727.2	2087.1	194.8
38°	6981.4	7005.8	6663.2	6115.3	5287.4	4497.8	3629.9	2920.2	2281.9	1775.8	170.4
39°	5464.8	5445.7	5353.5	4845.6	4096.0	3577.7	2941.1	2421.1	1901.0	1497.5	144.4
40°	4116.9	4148.2	3932.5	3626.4	3189.8	2763.7	2342.8	1930.6	1572.3	1262.7	113.1
42.5°	2001.9	2050.6	1908.0	1829.7	1636.7	1469.7	1240.1	1012.3	860.9	744.4	50.4
45°	975.7	947.9	935.7	897.5	852.2	761.8	674.8	579.2	506.1	436.6	31.3
47.5°	499.2	485.3	485.3	469.6	454.0	424.4	380.9	349.6	314.8	271.3	12.2
50°	149.6	147.8	146.1	147.8	142.6	147.8	151.3	153.1	139.1	137.4	3.5
52.5°	59.1	60.9	59.1	64.4	64.4	62.6	64.4	62.6	60.9	53.9	0.0
55°	17.4	17.4	17.4	17.4	17.4	17.4	19.1	20.9	19.1	20.9	0.0
57.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.0
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	1.7
62.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7



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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	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	59.1	59.1	59.1	59.1	59.1	59.1
2.5°	69.6	60.9	50.4	41.7	38.3	36.5
5°	74.8	55.7	38.3	29.6	26.1	24.3
7.5°	80.0	50.4	29.6	20.9	15.7	13.9
10°	83.5	43.5	22.6	12.2	8.7	8.7
12.5°	83.5	34.8	15.7	7.0	5.2	5.2
15°	81.7	29.6	10.4	5.2	3.5	3.5
17.5°	80.0	22.6	7.0	3.5	1.7	3.5
20°	74.8	17.4	3.5	1.7	1.7	1.7
21°	73.0	15.7	3.5	1.7	1.7	1.7
22°	69.6	13.9	1.7	0.0	1.7	1.7
23°	66.1	10.4	1.7	0.0	0.0	0.0
24°	60.9	8.7	1.7	0.0	0.0	0.0
25°	57.4	8.7	1.7	0.0	0.0	0.0
26°	53.9	5.2	0.0	0.0	0.0	0.0
27°	48.7	3.5	0.0	0.0	0.0	0.0
28°	45.2	3.5	0.0	0.0	0.0	0.0
29°	40.0	3.5	0.0	0.0	0.0	0.0
30°	34.8	3.5	0.0	0.0	0.0	0.0
31°	27.8	1.7	0.0	0.0	0.0	0.0
32°	22.6	1.7	0.0	0.0	0.0	0.0
33°	15.7	1.7	0.0	0.0	0.0	0.0
34°	10.4	1.7	0.0	0.0	0.0	0.0
35°	8.7	1.7	0.0	0.0	0.0	0.0
36°	5.2	1.7	0.0	0.0	0.0	1.7
37°	5.2	1.7	0.0	0.0	0.0	1.7
38°	3.5	1.7	0.0	0.0	0.0	1.7
39°	1.7	1.7	0.0	0.0	0.0	1.7
40°	1.7	1.7	0.0	0.0	0.0	1.7
42.5°	0.0	1.7	0.0	0.0	1.7	3.5
45°	0.0	1.7	0.0	0.0	1.7	3.5
47.5°	0.0	1.7	0.0	0.0	3.5	3.5
50°	0.0	1.7	1.7	1.7	3.5	5.2
52.5°	0.0	3.5	1.7	3.5	5.2	7.0
55°	1.7	3.5	3.5	5.2	7.0	8.7
57.5°	1.7	5.2	5.2	7.0	8.7	8.7
60°	3.5	5.2	7.0	7.0	10.4	10.4
62.5°	3.5	7.0	7.0	7.0	10.4	10.4
65°	3.5	7.0	7.0	8.7	10.4	10.4
67.5°	3.5	7.0	7.0	7.0	8.7	10.4
70°	3.5	7.0	5.2	7.0	8.7	8.7
72.5°	3.5	7.0	5.2	5.2	7.0	8.7
75°	3.5	7.0	5.2	5.2	7.0	7.0
77.5°	3.5	5.2	5.2	3.5	5.2	5.2
80°	3.5	5.2	3.5	3.5	5.2	5.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.5	5.2	3.5	1.7	3.5	3.5
85°	3.5	5.2	3.5	1.7	1.7	1.7
87.5°	3.5	5.2	1.7	0.0	0.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)