

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: P1312808

Luminaire Tested: LDSQA3D20R159050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312808
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: LDSQA3D20R159050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

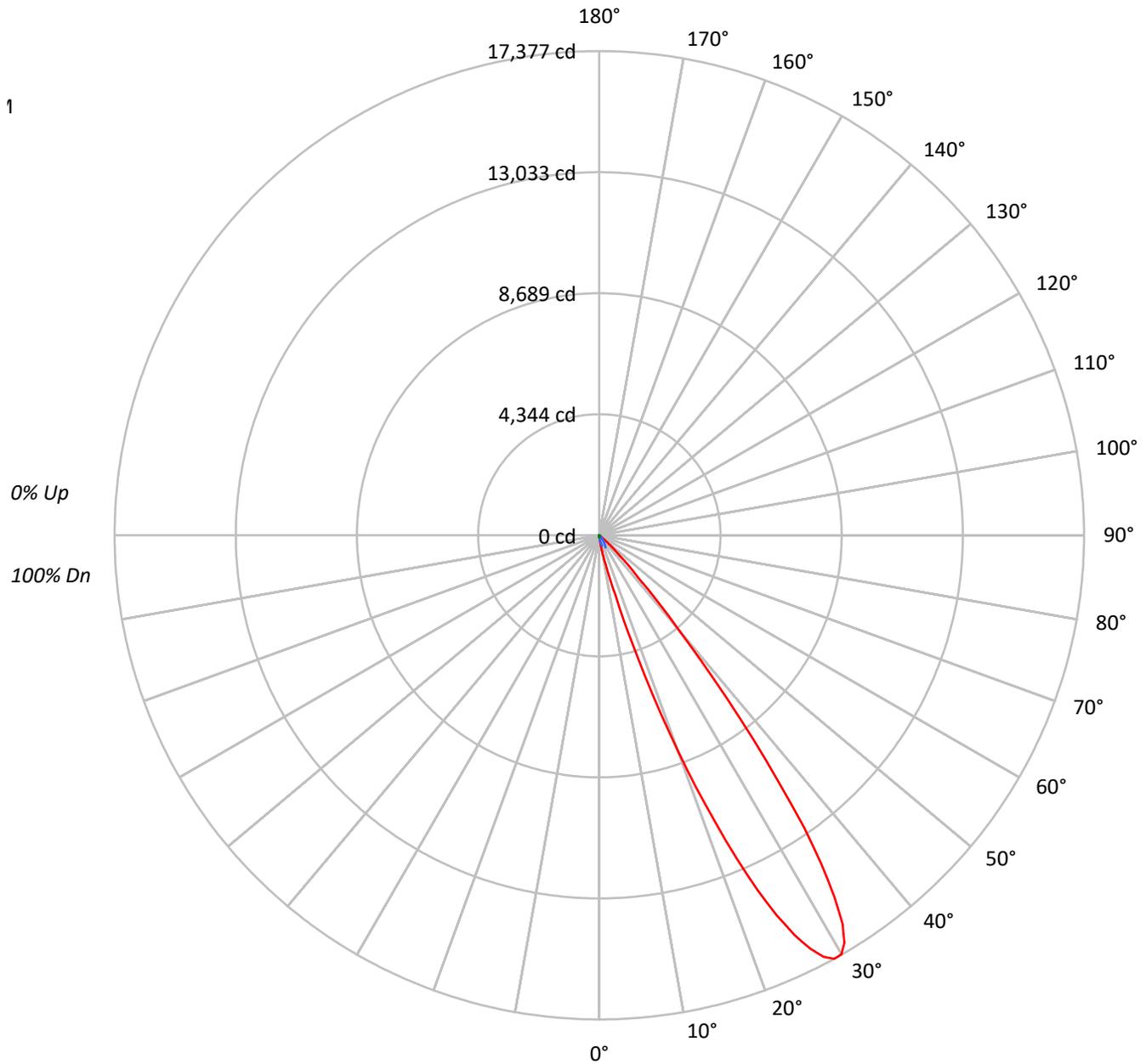
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1897.9 lumens
Efficiency: N/A
Efficacy: 65.9 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	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	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10816	10816	10816	10816	10816
5°	23304	17236	10217	5428	4460
10°	103319	32615	8079	2256	1609
15°	390740	75384	5599	981	660
20°	1502731	106245	3391	330	330
25°	2857602	99631	1748	0	0
30°	3452048	80401	736	0	0
35°	2692356	54727	378	0	0
40°	982489	26978	405	0	405
45°	252279	8086	438	0	901
50°	42547	991	482	482	1474
55°	5555	0	1111	1651	2762
60°	620	620	1894	2549	3823
65°	734	734	3016	3749	4523
70°	906	906	3726	3726	4633
75°	1198	1198	4924	3660	4924
80°	0	1785	5455	3670	5455
85°	0	3557	10868	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 252279 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.5
10°-20°	145.4	7.7
20°-30°	806.7	42.5
30°-40°	779.3	41.1
40°-50°	135.5	7.1
50°-60°	9.7	0.5
60°-70°	5.7	0.3
70°-80°	4.6	0.2
80°-90°	2.3	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°	960.7	50.6
0°-40°	1740.0	91.7
0°-60°	1885.2	99.3
0°-90°	1897.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1897.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	135	100	59	31	26	26
15°	2192	423	31	6	4	977
25°	15038	524	9	0	0	6724
35°	12806	260	2	0	0	7365
45°	1036	33	2	0	4	1113
55°	18	0	4	6	9	36
65°	2	2	7	9	11	2
75°	2	2	7	6	7	1
85°	0	2	6	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°	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
2.5°	92.3	88.6	90.5	90.5	90.5	90.5	90.5	86.8	86.8	88.6	79.4
5°	134.8	134.8	132.9	134.8	134.8	132.9	129.2	127.4	127.4	123.7	99.7
7.5°	269.6	265.9	265.9	262.2	243.7	238.2	234.5	225.2	208.6	204.9	129.2
10°	590.8	592.7	579.7	563.1	561.3	533.6	524.3	507.7	476.3	445.0	186.5
12.5°	1072.7	1048.7	1017.3	1019.1	965.6	947.1	904.7	858.5	810.5	760.7	306.5
15°	2191.5	2123.2	2163.8	2064.1	1951.5	1824.1	1694.9	1532.4	1393.9	1246.2	422.8
17.5°	4615.7	4682.2	4569.5	4143.0	3880.9	3572.5	3138.7	2719.6	2361.4	2073.4	517.0
20°	8199.3	8297.2	7915.0	7543.9	6906.9	6212.7	5489.0	4669.2	3884.6	3205.1	579.7
21°	9696.6	9637.6	9480.6	8886.1	8151.3	7346.3	6460.1	5555.4	4604.6	3722.1	585.3
22°	11144.1	11171.8	10806.3	10184.1	9419.7	8528.0	7446.0	6329.0	5304.4	4143.0	576.0
23°	12586.1	12674.7	12191.0	11607.5	10645.6	9639.4	8387.6	7182.0	5915.5	4624.9	557.6
24°	13920.9	13860.0	13533.2	12798.4	11770.0	10592.1	9292.3	7830.1	6417.7	5036.6	542.8
25°	15037.9	15030.5	14517.3	13802.8	12626.7	11321.4	9888.7	8359.9	6847.8	5315.4	524.3
26°	15951.8	15802.3	15397.9	14526.5	13365.2	11987.9	10377.9	8745.8	7089.7	5455.7	505.9
27°	16657.1	16550.0	16007.2	15100.7	13887.7	12364.5	10691.8	8937.8	7200.5	5501.9	481.9
28°	17131.6	17015.3	16437.4	15503.2	14175.7	12600.8	10858.0	9019.1	7200.5	5457.6	459.7
29°	17377.2	17218.4	16642.3	15641.7	14242.2	12628.5	10817.3	8939.7	7087.9	5321.0	433.9
30°	17358.7	17161.1	16557.4	15516.1	14044.6	12401.4	10590.2	8653.5	6833.1	5117.9	404.3
31°	17059.6	16838.0	16164.2	15091.5	13636.6	11973.1	10161.9	8269.5	6484.1	4853.9	374.8
32°	16452.2	16171.5	15514.3	14445.3	13008.9	11332.4	9539.7	7676.8	5961.6	4468.0	343.4
33°	15462.6	15180.1	14474.8	13472.3	12159.6	10520.1	8714.4	7039.9	5367.1	4008.3	317.6
34°	14223.7	13965.2	13357.8	12347.9	11088.7	9491.7	7765.4	6159.2	4750.5	3552.2	289.9
35°	12805.8	12394.1	11843.9	11044.4	9816.7	8210.4	6740.8	5339.4	4115.4	3074.1	260.3
36°	10887.5	10961.3	10377.9	9399.4	8382.1	7122.9	5712.4	4451.4	3441.5	2619.9	234.5
37°	9187.1	9070.8	8699.7	7942.7	7056.5	5806.5	4787.4	3773.8	2895.0	2215.5	206.8
38°	7411.0	7436.8	7073.1	6491.5	5612.7	4774.5	3853.2	3099.9	2422.3	1885.0	180.9
39°	5801.0	5780.7	5682.8	5143.7	4348.0	3797.8	3122.1	2570.0	2018.0	1589.6	153.2
40°	4370.1	4403.4	4174.4	3849.5	3386.1	2933.7	2486.9	2049.4	1669.0	1340.4	120.0
42.5°	2125.1	2176.8	2025.4	1942.3	1737.3	1560.1	1316.4	1074.5	913.9	790.2	53.5
45°	1035.8	1006.2	993.3	952.7	904.7	808.7	716.4	614.8	537.3	463.4	33.2
47.5°	529.9	515.1	515.1	498.5	481.9	450.5	404.3	371.1	334.2	288.0	12.9
50°	158.8	156.9	155.1	156.9	151.4	156.9	160.6	162.5	147.7	145.9	3.7
52.5°	62.8	64.6	62.8	68.3	68.3	66.5	68.3	66.5	64.6	57.2	0.0
55°	18.5	18.5	18.5	18.5	18.5	18.5	20.3	22.2	20.3	22.2	0.0
57.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.0
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
67.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8



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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	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	62.8	62.8	62.8	62.8	62.8	62.8
2.5°	73.9	64.6	53.5	44.3	40.6	38.8
5°	79.4	59.1	40.6	31.4	27.7	25.8
7.5°	84.9	53.5	31.4	22.2	16.6	14.8
10°	88.6	46.2	24.0	12.9	9.2	9.2
12.5°	88.6	36.9	16.6	7.4	5.5	5.5
15°	86.8	31.4	11.1	5.5	3.7	3.7
17.5°	84.9	24.0	7.4	3.7	1.8	3.7
20°	79.4	18.5	3.7	1.8	1.8	1.8
21°	77.5	16.6	3.7	1.8	1.8	1.8
22°	73.9	14.8	1.8	0.0	1.8	1.8
23°	70.2	11.1	1.8	0.0	0.0	0.0
24°	64.6	9.2	1.8	0.0	0.0	0.0
25°	60.9	9.2	1.8	0.0	0.0	0.0
26°	57.2	5.5	0.0	0.0	0.0	0.0
27°	51.7	3.7	0.0	0.0	0.0	0.0
28°	48.0	3.7	0.0	0.0	0.0	0.0
29°	42.5	3.7	0.0	0.0	0.0	0.0
30°	36.9	3.7	0.0	0.0	0.0	0.0
31°	29.5	1.8	0.0	0.0	0.0	0.0
32°	24.0	1.8	0.0	0.0	0.0	0.0
33°	16.6	1.8	0.0	0.0	0.0	0.0
34°	11.1	1.8	0.0	0.0	0.0	0.0
35°	9.2	1.8	0.0	0.0	0.0	0.0
36°	5.5	1.8	0.0	0.0	0.0	1.8
37°	5.5	1.8	0.0	0.0	0.0	1.8
38°	3.7	1.8	0.0	0.0	0.0	1.8
39°	1.8	1.8	0.0	0.0	0.0	1.8
40°	1.8	1.8	0.0	0.0	0.0	1.8
42.5°	0.0	1.8	0.0	0.0	1.8	3.7
45°	0.0	1.8	0.0	0.0	1.8	3.7
47.5°	0.0	1.8	0.0	0.0	3.7	3.7
50°	0.0	1.8	1.8	1.8	3.7	5.5
52.5°	0.0	3.7	1.8	3.7	5.5	7.4
55°	1.8	3.7	3.7	5.5	7.4	9.2
57.5°	1.8	5.5	5.5	7.4	9.2	9.2
60°	3.7	5.5	7.4	7.4	11.1	11.1
62.5°	3.7	7.4	7.4	7.4	11.1	11.1
65°	3.7	7.4	7.4	9.2	11.1	11.1
67.5°	3.7	7.4	7.4	7.4	9.2	11.1
70°	3.7	7.4	5.5	7.4	9.2	9.2
72.5°	3.7	7.4	5.5	5.5	7.4	9.2
75°	3.7	7.4	5.5	5.5	7.4	7.4
77.5°	3.7	5.5	5.5	3.7	5.5	5.5
80°	3.7	5.5	3.7	3.7	5.5	5.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.7	5.5	3.7	1.8	3.7	3.7
85°	3.7	5.5	3.7	1.8	1.8	1.8
87.5°	3.7	5.5	1.8	0.0	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)