

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: P1320362

Luminaire Tested: LDSQA3D20R209840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320362
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: LDSQA3D20R209840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

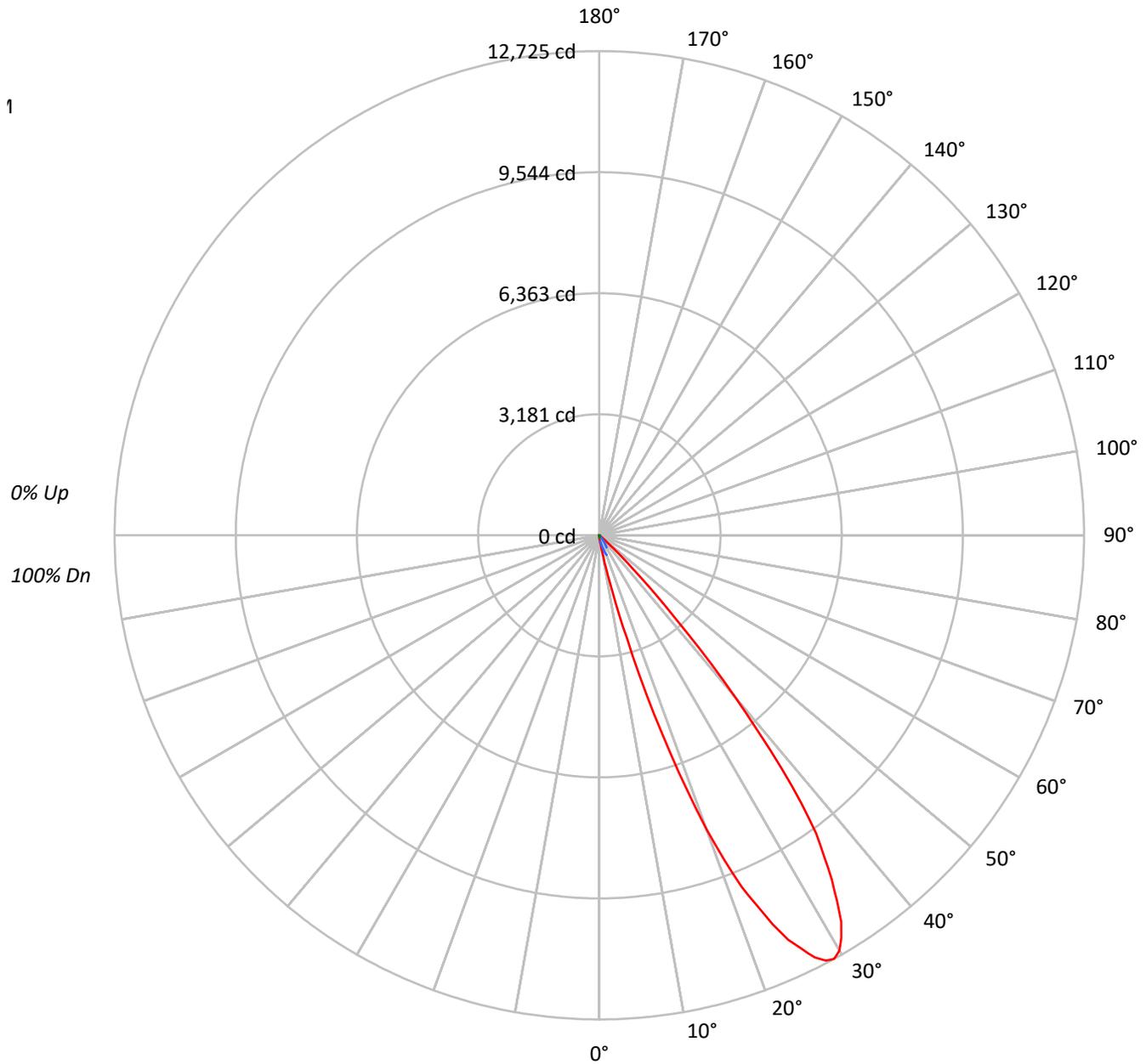
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1785.0 lumens
Efficiency: N/A
Efficacy: 65.1 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): 27.4
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	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10592	10592	10592	10592	10592
5°	24359	18204	10079	6155	5325
10°	76755	31723	8219	3393	2553
15°	497202	58607	6062	1159	285
20°	1500623	100325	4160	0	0
25°	2228595	101246	2470	0	0
30°	2506164	76961	974	0	0
35°	2162349	45960	673	0	0
40°	1245147	15648	0	0	0
45°	303719	6308	390	0	390
50°	36439	1742	429	429	1313
55°	4864	0	961	961	1952
60°	551	0	1688	1688	2790
65°	652	652	2649	2649	3953
70°	806	806	3273	3273	4079
75°	0	1065	4325	3261	4325
80°	0	1587	4860	3174	4860
85°	0	3162	9683	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 305667 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.5
10°-20°	165.4	9.3
20°-30°	721.0	40.4
30°-40°	726.1	40.7
40°-50°	145.6	8.2
50°-60°	7.3	0.4
60°-70°	4.8	0.3
70°-80°	4.3	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°	894.7	50.1
0°-40°	1620.8	90.8
0°-60°	1773.8	99.4
0°-90°	1785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	141	105	58	36	31	22
15°	2789	329	34	6	2	1092
25°	11728	533	13	0	0	5288
35°	10285	219	3	0	0	6120
45°	1247	26	2	0	2	1358
55°	16	0	3	3	6	30
65°	2	2	6	6	10	2
75°	0	2	6	5	6	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°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
2.5°	92.3	92.3	90.7	90.7	89.1	90.7	87.4	89.1	89.1	87.4	79.4
5°	140.9	144.1	142.5	142.5	140.9	142.5	139.3	136.0	132.8	132.8	105.3
7.5°	231.6	230.0	226.7	228.3	223.5	220.2	217.0	215.4	205.7	200.8	137.7
10°	438.9	448.6	440.5	438.9	409.7	408.1	388.7	361.1	336.8	323.9	181.4
12.5°	1208.1	1259.9	1178.9	1140.1	1117.4	1029.9	992.7	897.2	804.9	735.2	230.0
15°	2788.6	2916.6	2753.0	2764.3	2628.3	2378.9	2160.3	1972.5	1750.6	1527.1	328.7
17.5°	5463.9	5360.3	5271.2	5120.6	4843.7	4477.7	4006.4	3528.7	3115.8	2683.4	458.3
20°	8187.8	8095.5	7893.0	7564.3	7211.3	6668.8	6108.4	5391.0	4696.3	4045.3	547.4
21°	9125.4	9094.7	8762.7	8560.2	8016.1	7497.9	6851.8	6084.2	5302.0	4531.1	561.9
22°	9962.7	9778.0	9599.9	9300.3	8759.4	8195.9	7476.9	6668.8	5820.2	4963.5	563.6
23°	10542.4	10458.2	10289.8	9951.3	9413.7	8751.3	7993.4	7148.1	6254.2	5269.6	558.7
24°	11183.7	11076.8	10830.7	10435.5	9893.0	9238.8	8374.0	7535.2	6563.5	5527.1	545.7
25°	11727.8	11561.0	11269.5	10843.6	10250.9	9575.6	8706.0	7784.5	6778.9	5700.4	532.8
26°	12080.9	11990.2	11616.1	11152.9	10518.1	9821.8	8934.3	7975.6	6918.2	5779.7	511.7
27°	12448.5	12281.7	11914.1	11381.3	10693.0	9982.1	9063.9	8067.9	6966.7	5782.9	485.8
28°	12659.0	12477.6	12061.4	11501.1	10806.4	10071.2	9138.4	8097.1	6957.0	5732.7	455.1
29°	12725.4	12497.0	12090.6	11520.5	10833.9	10077.6	9127.0	8055.0	6871.2	5609.7	419.4
30°	12602.3	12369.1	11983.7	11428.2	10746.5	9996.7	9021.8	7915.7	6719.0	5433.1	387.0
31°	12333.5	12135.9	11763.5	11206.4	10552.1	9807.2	8783.7	7687.4	6459.9	5196.7	349.8
32°	11978.8	11784.5	11418.5	10914.9	10249.3	9497.9	8458.2	7331.1	6155.4	4843.7	312.5
33°	11446.0	11334.3	11005.6	10524.6	9859.0	9055.8	8021.0	6905.2	5721.4	4451.8	280.2
34°	10906.8	10765.9	10535.9	10009.6	9293.8	8492.2	7450.9	6317.3	5191.9	4012.9	249.4
35°	10284.9	10200.7	9839.6	9418.5	8699.5	7880.1	6845.3	5745.7	4574.9	3523.9	218.6
36°	9682.5	9552.9	9141.6	8696.3	7998.3	7112.5	6090.6	5057.4	4042.1	3065.6	186.2
37°	8808.0	8610.4	8317.3	7847.7	7031.5	6276.9	5344.1	4385.4	3386.2	2570.0	150.6
38°	7779.7	7687.4	7280.9	6808.0	6132.7	5417.0	4493.9	3680.9	2793.5	2145.7	115.0
39°	6566.7	6565.1	6176.5	5834.8	5174.0	4529.5	3697.1	2987.8	2306.1	1727.9	89.1
40°	5538.4	5347.3	5107.6	4678.5	4171.6	3624.3	2895.5	2338.4	1789.5	1392.7	69.6
42.5°	2903.6	2887.4	2746.5	2424.3	2140.9	1818.6	1446.1	1204.8	942.5	767.6	43.7
45°	1247.0	1255.0	1157.9	1109.3	999.2	864.8	730.4	608.9	521.5	422.7	25.9
47.5°	315.8	302.8	299.6	310.9	310.9	301.2	270.4	254.2	234.8	215.4	14.6
50°	136.0	132.8	129.6	129.6	121.5	116.6	108.5	98.8	90.7	81.0	6.5
52.5°	50.2	51.8	53.4	51.8	51.8	50.2	50.2	48.6	43.7	38.9	3.2
55°	16.2	16.2	16.2	17.8	17.8	19.4	19.4	19.4	19.4	17.8	0.0
57.5°	3.2	3.2	4.9	4.9	4.9	4.9	4.9	4.9	6.5	6.5	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.6	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.0	0.0	0.0	1.6	0.0	1.6	1.6	0.0	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6



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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	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1320362
 CATALOG NUMBER: LDSQA3D20R209840D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	61.5	61.5	61.5	61.5	61.5	61.5
2.5°	71.3	63.2	53.4	45.3	43.7	42.1
5°	79.4	58.3	43.7	35.6	32.4	30.8
7.5°	85.8	53.4	35.6	25.9	22.7	21.1
10°	89.1	47.0	29.1	19.4	14.6	14.6
12.5°	90.7	40.5	21.1	13.0	8.1	8.1
15°	89.1	34.0	16.2	6.5	1.6	1.6
17.5°	81.0	27.5	9.7	1.6	0.0	0.0
20°	69.6	22.7	6.5	0.0	0.0	0.0
21°	66.4	19.4	4.9	0.0	0.0	0.0
22°	61.5	17.8	3.2	0.0	0.0	0.0
23°	56.7	16.2	3.2	0.0	0.0	0.0
24°	51.8	14.6	1.6	0.0	0.0	0.0
25°	48.6	13.0	1.6	0.0	0.0	0.0
26°	45.3	11.3	1.6	0.0	0.0	0.0
27°	40.5	9.7	0.0	0.0	0.0	0.0
28°	37.2	8.1	0.0	0.0	0.0	0.0
29°	32.4	6.5	0.0	0.0	0.0	0.0
30°	27.5	4.9	0.0	0.0	0.0	0.0
31°	22.7	4.9	0.0	0.0	0.0	0.0
32°	19.4	3.2	0.0	0.0	0.0	0.0
33°	16.2	3.2	0.0	0.0	0.0	0.0
34°	14.6	3.2	0.0	0.0	0.0	0.0
35°	13.0	3.2	0.0	0.0	0.0	0.0
36°	9.7	1.6	0.0	0.0	0.0	0.0
37°	8.1	1.6	0.0	0.0	0.0	0.0
38°	6.5	1.6	0.0	0.0	0.0	0.0
39°	4.9	0.0	0.0	0.0	0.0	0.0
40°	4.9	0.0	0.0	0.0	0.0	0.0
42.5°	1.6	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.6	0.0	0.0	1.6	1.6
47.5°	0.0	1.6	0.0	0.0	1.6	3.2
50°	0.0	1.6	1.6	1.6	3.2	4.9
52.5°	0.0	3.2	1.6	1.6	4.9	4.9
55°	1.6	3.2	1.6	3.2	6.5	6.5
57.5°	1.6	3.2	3.2	4.9	6.5	8.1
60°	3.2	4.9	4.9	4.9	8.1	8.1
62.5°	3.2	4.9	6.5	6.5	8.1	9.7
65°	3.2	6.5	6.5	6.5	8.1	9.7
67.5°	4.9	6.5	6.5	6.5	8.1	9.7
70°	4.9	6.5	6.5	6.5	8.1	8.1
72.5°	4.9	6.5	4.9	6.5	6.5	8.1
75°	4.9	6.5	4.9	4.9	6.5	6.5
77.5°	3.2	4.9	4.9	3.2	4.9	4.9
80°	3.2	4.9	3.2	3.2	4.9	4.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.2	4.9	3.2	1.6	3.2	3.2
85°	3.2	4.9	3.2	1.6	1.6	1.6
87.5°	3.2	4.9	3.2	1.6	0.0	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)