

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: P1307421

Luminaire Tested: LDSQA3D20R209024D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307421
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: LDSQA3D20R209024D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

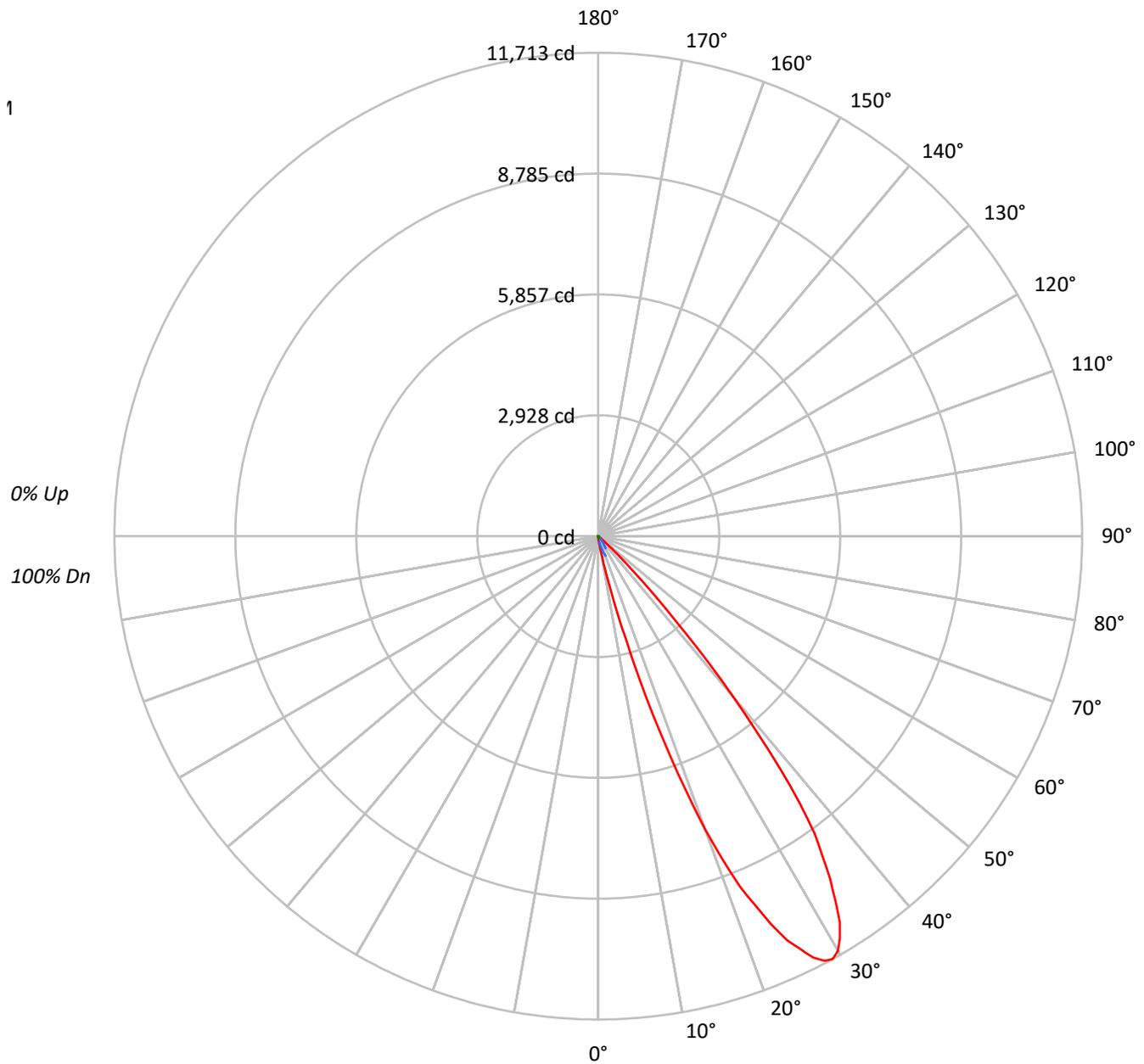
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1643.1 lumens
Efficiency: N/A
Efficacy: 57.1 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): 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	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°	9748	9748	9748	9748	9748
5°	22423	16752	9284	5670	4893
10°	70634	29187	7555	3130	2343
15°	457655	53953	5581	1070	267
20°	1381238	92334	3830	0	0
25°	2051319	93189	2261	0	0
30°	2306801	70856	895	0	0
35°	1990327	42301	631	0	0
40°	1146091	14411	0	0	0
45°	279558	5797	365	0	365
50°	33545	1608	402	402	1206
55°	4474	0	901	901	1802
60°	517	0	1550	1550	2583
65°	611	611	2445	2445	3627
70°	755	755	3021	3021	3777
75°	0	998	3993	2994	3993
80°	0	1488	4463	2975	4463
85°	0	2964	8892	2964	2964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 281360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.5
10°-20°	152.3	9.3
20°-30°	663.7	40.4
30°-40°	668.4	40.7
40°-50°	134.1	8.2
50°-60°	6.7	0.4
60°-70°	4.5	0.3
70°-80°	3.9	0.2
80°-90°	2.0	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°	823.5	50.1
0°-40°	1491.9	90.8
0°-60°	1632.7	99.4
0°-90°	1643.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1643.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	130	97	54	33	28	20
15°	2567	303	31	6	2	1005
25°	10795	490	12	0	0	4867
35°	9467	201	3	0	0	5633
45°	1148	24	2	0	2	1250
55°	15	0	3	3	6	28
65°	2	2	6	6	9	1
75°	0	2	6	4	6	1
85°	0	2	4	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°	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
2.5°	85.0	85.0	83.5	83.5	82.0	83.5	80.5	82.0	82.0	80.5	73.0
5°	129.7	132.7	131.2	131.2	129.7	131.2	128.2	125.2	122.2	122.2	96.9
7.5°	213.2	211.7	208.7	210.2	205.7	202.7	199.7	198.2	189.3	184.8	126.7
10°	403.9	412.9	405.4	403.9	377.1	375.6	357.7	332.4	310.0	298.1	166.9
12.5°	1112.0	1159.7	1085.1	1049.4	1028.5	948.0	913.7	825.8	740.8	676.7	211.7
15°	2566.8	2684.6	2534.0	2544.4	2419.2	2189.7	1988.4	1815.5	1611.3	1405.6	302.6
17.5°	5029.3	4933.9	4851.9	4713.2	4458.4	4121.5	3687.7	3248.0	2867.9	2469.9	421.8
20°	7536.4	7451.5	7265.1	6962.5	6637.6	6138.3	5622.5	4962.2	4322.7	3723.5	503.8
21°	8399.5	8371.2	8065.6	7879.3	7378.4	6901.4	6306.7	5600.1	4880.2	4170.7	517.2
22°	9170.1	9000.2	8836.2	8560.5	8062.6	7543.9	6882.1	6138.3	5357.2	4568.7	518.7
23°	9703.7	9626.2	9471.2	9159.7	8664.8	8055.2	7357.6	6579.5	5756.7	4850.4	514.3
24°	10294.0	10195.6	9969.1	9605.4	9106.0	8503.8	7707.8	6935.7	6041.4	5087.4	502.3
25°	10794.9	10641.3	10373.0	9981.0	9435.4	8813.9	8013.4	7165.3	6239.6	5246.9	490.4
26°	11119.8	11036.3	10692.0	10265.7	9681.4	9040.4	8223.6	7341.2	6367.8	5319.9	471.0
27°	11458.2	11304.6	10966.3	10475.9	9842.4	9188.0	8342.8	7426.1	6412.5	5322.9	447.2
28°	11651.9	11485.0	11101.9	10586.2	9946.7	9270.0	8411.4	7453.0	6403.6	5276.7	418.9
29°	11713.1	11502.9	11128.7	10604.1	9972.0	9275.9	8401.0	7414.2	6324.6	5163.4	386.1
30°	11599.8	11385.1	11030.4	10519.1	9891.6	9201.4	8304.1	7286.0	6184.5	5000.9	356.3
31°	11352.3	11170.5	10827.6	10314.9	9712.7	9027.0	8085.0	7075.8	5946.0	4783.3	322.0
32°	11025.9	10847.0	10510.2	10046.6	9433.9	8742.3	7785.4	6747.9	5665.7	4458.4	287.7
33°	10535.5	10432.6	10130.1	9687.3	9074.7	8335.4	7382.9	6355.9	5266.3	4097.6	257.9
34°	10039.1	9909.4	9697.8	9213.3	8554.5	7816.7	6858.2	5814.8	4778.8	3693.7	229.6
35°	9466.7	9389.2	9056.8	8669.3	8007.5	7253.2	6300.7	5288.6	4210.9	3243.5	201.2
36°	8912.2	8793.0	8414.4	8004.5	7362.0	6546.7	5606.1	4655.1	3720.5	2821.7	171.4
37°	8107.3	7925.5	7655.7	7223.4	6472.1	5777.5	4918.9	4036.5	3116.8	2365.6	138.6
38°	7160.8	7075.8	6701.7	6266.4	5644.9	4986.0	4136.4	3388.1	2571.3	1975.0	105.8
39°	6044.3	6042.9	5685.1	5370.6	4762.4	4169.2	3403.0	2750.1	2122.6	1590.5	82.0
40°	5097.8	4921.9	4701.3	4306.3	3839.8	3335.9	2665.2	2152.4	1647.1	1281.9	64.1
42.5°	2672.6	2657.7	2528.0	2231.4	1970.6	1673.9	1331.1	1109.0	867.5	706.5	40.2
45°	1147.8	1155.2	1065.8	1021.1	919.7	796.0	672.3	560.5	480.0	389.0	23.8
47.5°	290.7	278.7	275.8	286.2	286.2	277.2	248.9	234.0	216.1	198.2	13.4
50°	125.2	122.2	119.2	119.2	111.8	107.3	99.9	90.9	83.5	74.5	6.0
52.5°	46.2	47.7	49.2	47.7	47.7	46.2	46.2	44.7	40.2	35.8	3.0
55°	14.9	14.9	14.9	16.4	16.4	17.9	17.9	17.9	17.9	16.4	0.0
57.5°	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	6.0	6.0	0.0
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	1.5	0.0	1.5	1.5	0.0	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5



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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	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
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°	56.6	56.6	56.6	56.6	56.6	56.6
2.5°	65.6	58.1	49.2	41.7	40.2	38.8
5°	73.0	53.7	40.2	32.8	29.8	28.3
7.5°	79.0	49.2	32.8	23.8	20.9	19.4
10°	82.0	43.2	26.8	17.9	13.4	13.4
12.5°	83.5	37.3	19.4	11.9	7.5	7.5
15°	82.0	31.3	14.9	6.0	1.5	1.5
17.5°	74.5	25.3	8.9	1.5	0.0	0.0
20°	64.1	20.9	6.0	0.0	0.0	0.0
21°	61.1	17.9	4.5	0.0	0.0	0.0
22°	56.6	16.4	3.0	0.0	0.0	0.0
23°	52.2	14.9	3.0	0.0	0.0	0.0
24°	47.7	13.4	1.5	0.0	0.0	0.0
25°	44.7	11.9	1.5	0.0	0.0	0.0
26°	41.7	10.4	1.5	0.0	0.0	0.0
27°	37.3	8.9	0.0	0.0	0.0	0.0
28°	34.3	7.5	0.0	0.0	0.0	0.0
29°	29.8	6.0	0.0	0.0	0.0	0.0
30°	25.3	4.5	0.0	0.0	0.0	0.0
31°	20.9	4.5	0.0	0.0	0.0	0.0
32°	17.9	3.0	0.0	0.0	0.0	0.0
33°	14.9	3.0	0.0	0.0	0.0	0.0
34°	13.4	3.0	0.0	0.0	0.0	0.0
35°	11.9	3.0	0.0	0.0	0.0	0.0
36°	8.9	1.5	0.0	0.0	0.0	0.0
37°	7.5	1.5	0.0	0.0	0.0	0.0
38°	6.0	1.5	0.0	0.0	0.0	0.0
39°	4.5	0.0	0.0	0.0	0.0	0.0
40°	4.5	0.0	0.0	0.0	0.0	0.0
42.5°	1.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.5	0.0	0.0	1.5	1.5
47.5°	0.0	1.5	0.0	0.0	1.5	3.0
50°	0.0	1.5	1.5	1.5	3.0	4.5
52.5°	0.0	3.0	1.5	1.5	4.5	4.5
55°	1.5	3.0	1.5	3.0	6.0	6.0
57.5°	1.5	3.0	3.0	4.5	6.0	7.5
60°	3.0	4.5	4.5	4.5	7.5	7.5
62.5°	3.0	4.5	6.0	6.0	7.5	8.9
65°	3.0	6.0	6.0	6.0	7.5	8.9
67.5°	4.5	6.0	6.0	6.0	7.5	8.9
70°	4.5	6.0	6.0	6.0	7.5	7.5
72.5°	4.5	6.0	4.5	6.0	6.0	7.5
75°	4.5	6.0	4.5	4.5	6.0	6.0
77.5°	3.0	4.5	4.5	3.0	4.5	4.5
80°	3.0	4.5	3.0	3.0	4.5	4.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	3.0	4.5	3.0	1.5	3.0	3.0
85°	3.0	4.5	3.0	1.5	1.5	1.5
87.5°	3.0	4.5	3.0	1.5	0.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)