

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: P1312824

Luminaire Tested: LDSQA3D20R209050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312824
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: LDSQA3D20R209050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

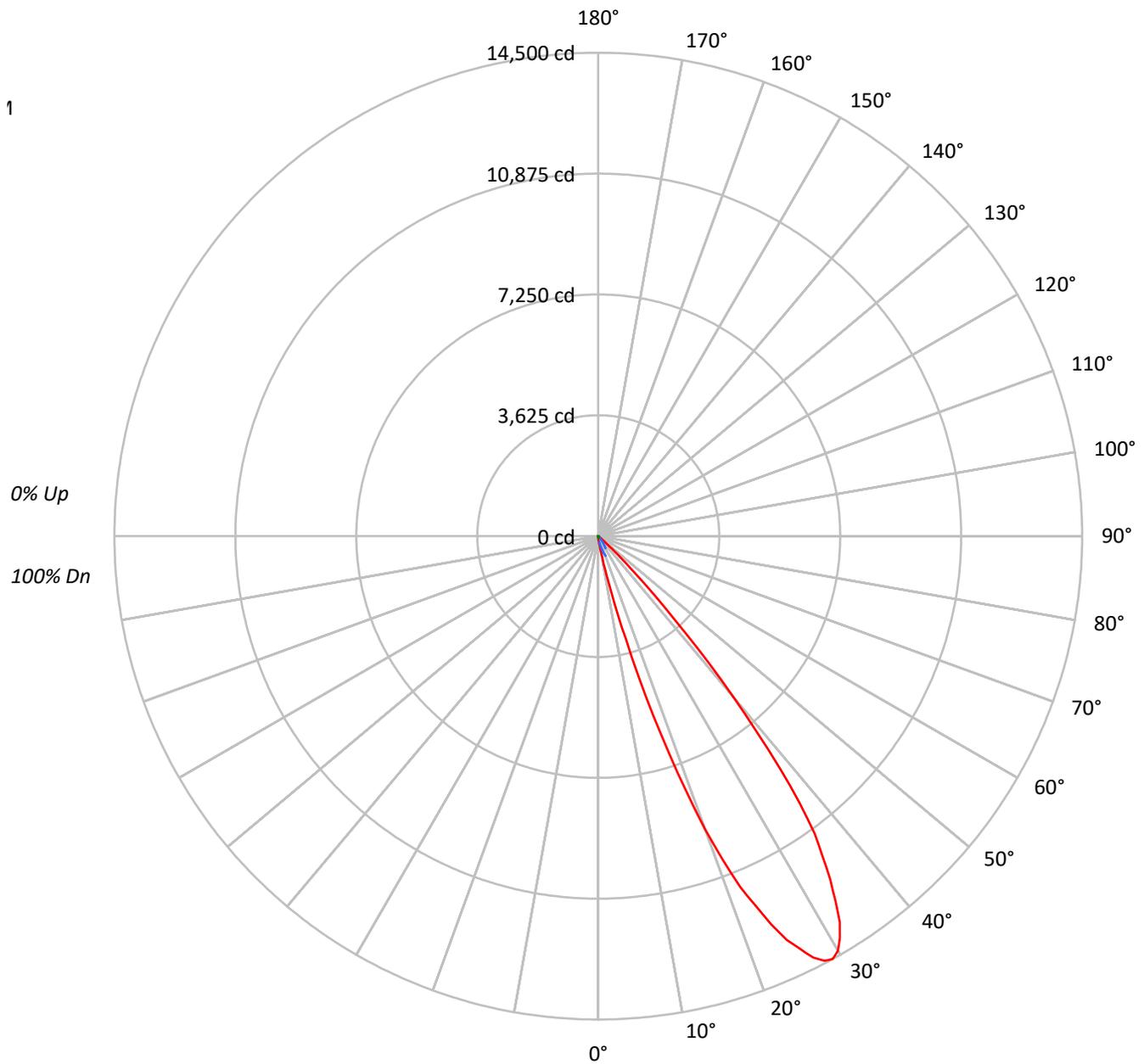
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.9 lumens
Efficiency: N/A
Efficacy: 70.6 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 (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				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°	12073	12073	12073	12073	12073
5°	27747	20728	11479	7019	6068
10°	87457	36148	9356	3865	2903
15°	566560	66790	6918	1319	321
20°	1709942	114309	4729	0	0
25°	2539478	115365	2812	0	0
30°	2855769	87700	1094	0	0
35°	2463988	52372	778	0	0
40°	1418843	17828	0	0	0
45°	346074	7185	438	0	438
50°	41529	1983	482	482	1474
55°	5555	0	1111	1111	2222
60°	620	0	1894	1894	3169
65°	734	734	3016	3016	4523
70°	906	906	3726	3726	4633
75°	0	1198	4924	3660	4924
80°	0	1785	5455	3670	5455
85°	0	3557	10868	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 348315 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.5
10°-20°	188.5	9.3
20°-30°	821.6	40.4
30°-40°	827.4	40.7
40°-50°	166.0	8.2
50°-60°	8.3	0.4
60°-70°	5.5	0.3
70°-80°	4.8	0.2
80°-90°	2.5	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°	1019.5	50.1
0°-40°	1846.9	90.8
0°-60°	2021.2	99.4
0°-90°	2033.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	160	120	66	41	35	25
15°	3178	375	39	7	2	1245
25°	13364	607	15	0	0	6026
35°	11720	249	4	0	0	6973
45°	1421	30	2	0	2	1547
55°	18	0	4	4	7	34
65°	2	2	7	7	11	2
75°	0	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°	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
2.5°	105.2	105.2	103.3	103.3	101.5	103.3	99.6	101.5	101.5	99.6	90.4
5°	160.5	164.2	162.4	162.4	160.5	162.4	158.7	155.0	151.3	151.3	119.9
7.5°	263.9	262.0	258.3	260.2	254.7	251.0	247.3	245.4	234.4	228.8	156.9
10°	500.1	511.2	501.9	500.1	466.9	465.0	442.9	411.5	383.8	369.1	206.7
12.5°	1376.6	1435.7	1343.4	1299.1	1273.3	1173.6	1131.2	1022.3	917.1	837.8	262.0
15°	3177.6	3323.4	3137.0	3150.0	2995.0	2710.8	2461.7	2247.6	1994.8	1740.1	374.6
17.5°	6226.1	6108.0	6006.5	5834.9	5519.4	5102.3	4565.3	4021.0	3550.4	3057.7	522.2
20°	9329.9	9224.8	8994.1	8619.5	8217.2	7599.0	6960.5	6143.1	5351.4	4609.6	623.7
21°	10398.4	10363.3	9985.0	9754.4	9134.3	8543.8	7807.5	6932.9	6041.6	5163.2	640.3
22°	11352.4	11142.0	10939.1	10597.7	9981.3	9339.2	8519.8	7599.0	6632.1	5655.9	642.2
23°	12013.0	11917.1	11725.2	11339.5	10726.8	9972.1	9108.5	8145.2	7126.6	6004.7	636.6
24°	12743.8	12622.0	12341.5	11891.2	11273.1	10527.6	9542.2	8586.3	7479.1	6298.1	621.9
25°	13363.8	13173.7	12841.6	12356.3	11680.9	10911.4	9920.4	8870.5	7724.5	6495.5	607.1
26°	13766.1	13662.7	13236.5	12708.7	11985.4	11191.9	10180.6	9088.2	7883.2	6585.9	583.1
27°	14185.0	13994.9	13576.0	12968.9	12184.6	11374.6	10328.3	9193.4	7938.6	6589.6	553.6
28°	14424.9	14218.2	13743.9	13105.5	12313.8	11476.0	10413.1	9226.6	7927.5	6532.4	518.5
29°	14500.5	14240.3	13777.2	13127.6	12345.2	11483.4	10400.2	9178.6	7829.7	6392.2	477.9
30°	14360.3	14094.6	13655.4	13022.4	12245.5	11391.2	10280.3	9019.9	7656.2	6191.0	441.0
31°	14054.0	13828.8	13404.4	12769.6	12024.1	11175.3	10009.0	8759.7	7361.0	5921.6	398.6
32°	13649.8	13428.4	13011.4	12437.5	11679.0	10822.8	9638.1	8353.8	7014.1	5519.4	356.1
33°	13042.7	12915.4	12540.8	11992.7	11234.3	10319.0	9139.9	7868.4	6519.5	5072.8	319.2
34°	12428.2	12267.7	12005.7	11405.9	10590.3	9676.9	8490.3	7198.6	5916.1	4572.7	284.2
35°	11719.6	11623.7	11212.2	10732.4	9913.1	8979.3	7800.2	6547.2	5213.0	4015.4	249.1
36°	11033.2	10885.5	10416.8	9909.4	9114.0	8104.6	6940.2	5762.9	4605.9	3493.2	212.2
37°	10036.7	9811.6	9477.6	8942.4	8012.4	7152.5	6089.6	4997.1	3858.6	2928.5	171.6
38°	8864.9	8759.7	8296.6	7757.7	6988.2	6172.6	5120.8	4194.4	3183.2	2445.0	131.0
39°	7482.8	7480.9	7038.1	6648.7	5895.8	5161.4	4212.9	3404.6	2627.7	1969.0	101.5
40°	6311.0	6093.2	5820.1	5331.1	4753.5	4129.8	3299.4	2664.6	2039.1	1587.0	79.3
42.5°	3308.7	3290.2	3129.7	2762.4	2439.5	2072.3	1647.9	1372.9	1074.0	874.7	49.8
45°	1420.9	1430.1	1319.4	1264.0	1138.6	985.4	832.2	693.8	594.2	481.6	29.5
47.5°	359.8	345.1	341.4	354.3	354.3	343.2	308.2	289.7	267.6	245.4	16.6
50°	155.0	151.3	147.6	147.6	138.4	132.9	123.6	112.6	103.3	92.3	7.4
52.5°	57.2	59.1	60.9	59.1	59.1	57.2	57.2	55.4	49.8	44.3	3.7
55°	18.5	18.5	18.5	20.3	20.3	22.1	22.1	22.1	22.1	20.3	0.0
57.5°	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	0.0
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
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	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	0.0	0.0	0.0	1.8	0.0	1.8	1.8	0.0	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	70.1	70.1	70.1	70.1	70.1	70.1
2.5°	81.2	72.0	60.9	51.7	49.8	48.0
5°	90.4	66.4	49.8	40.6	36.9	35.1
7.5°	97.8	60.9	40.6	29.5	25.8	24.0
10°	101.5	53.5	33.2	22.1	16.6	16.6
12.5°	103.3	46.1	24.0	14.8	9.2	9.2
15°	101.5	38.8	18.5	7.4	1.8	1.8
17.5°	92.3	31.4	11.1	1.8	0.0	0.0
20°	79.3	25.8	7.4	0.0	0.0	0.0
21°	75.7	22.1	5.5	0.0	0.0	0.0
22°	70.1	20.3	3.7	0.0	0.0	0.0
23°	64.6	18.5	3.7	0.0	0.0	0.0
24°	59.1	16.6	1.8	0.0	0.0	0.0
25°	55.4	14.8	1.8	0.0	0.0	0.0
26°	51.7	12.9	1.8	0.0	0.0	0.0
27°	46.1	11.1	0.0	0.0	0.0	0.0
28°	42.4	9.2	0.0	0.0	0.0	0.0
29°	36.9	7.4	0.0	0.0	0.0	0.0
30°	31.4	5.5	0.0	0.0	0.0	0.0
31°	25.8	5.5	0.0	0.0	0.0	0.0
32°	22.1	3.7	0.0	0.0	0.0	0.0
33°	18.5	3.7	0.0	0.0	0.0	0.0
34°	16.6	3.7	0.0	0.0	0.0	0.0
35°	14.8	3.7	0.0	0.0	0.0	0.0
36°	11.1	1.8	0.0	0.0	0.0	0.0
37°	9.2	1.8	0.0	0.0	0.0	0.0
38°	7.4	1.8	0.0	0.0	0.0	0.0
39°	5.5	0.0	0.0	0.0	0.0	0.0
40°	5.5	0.0	0.0	0.0	0.0	0.0
42.5°	1.8	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.8	0.0	0.0	1.8	1.8
47.5°	0.0	1.8	0.0	0.0	1.8	3.7
50°	0.0	1.8	1.8	1.8	3.7	5.5
52.5°	0.0	3.7	1.8	1.8	5.5	5.5
55°	1.8	3.7	1.8	3.7	7.4	7.4
57.5°	1.8	3.7	3.7	5.5	7.4	9.2
60°	3.7	5.5	5.5	5.5	9.2	9.2
62.5°	3.7	5.5	7.4	7.4	9.2	11.1
65°	3.7	7.4	7.4	7.4	9.2	11.1
67.5°	5.5	7.4	7.4	7.4	9.2	11.1
70°	5.5	7.4	7.4	7.4	9.2	9.2
72.5°	5.5	7.4	5.5	7.4	7.4	9.2
75°	5.5	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	3.7	1.8	0.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)