

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: P1319469

Luminaire Tested: LDSQA3D20R159835D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R159835D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

Summary

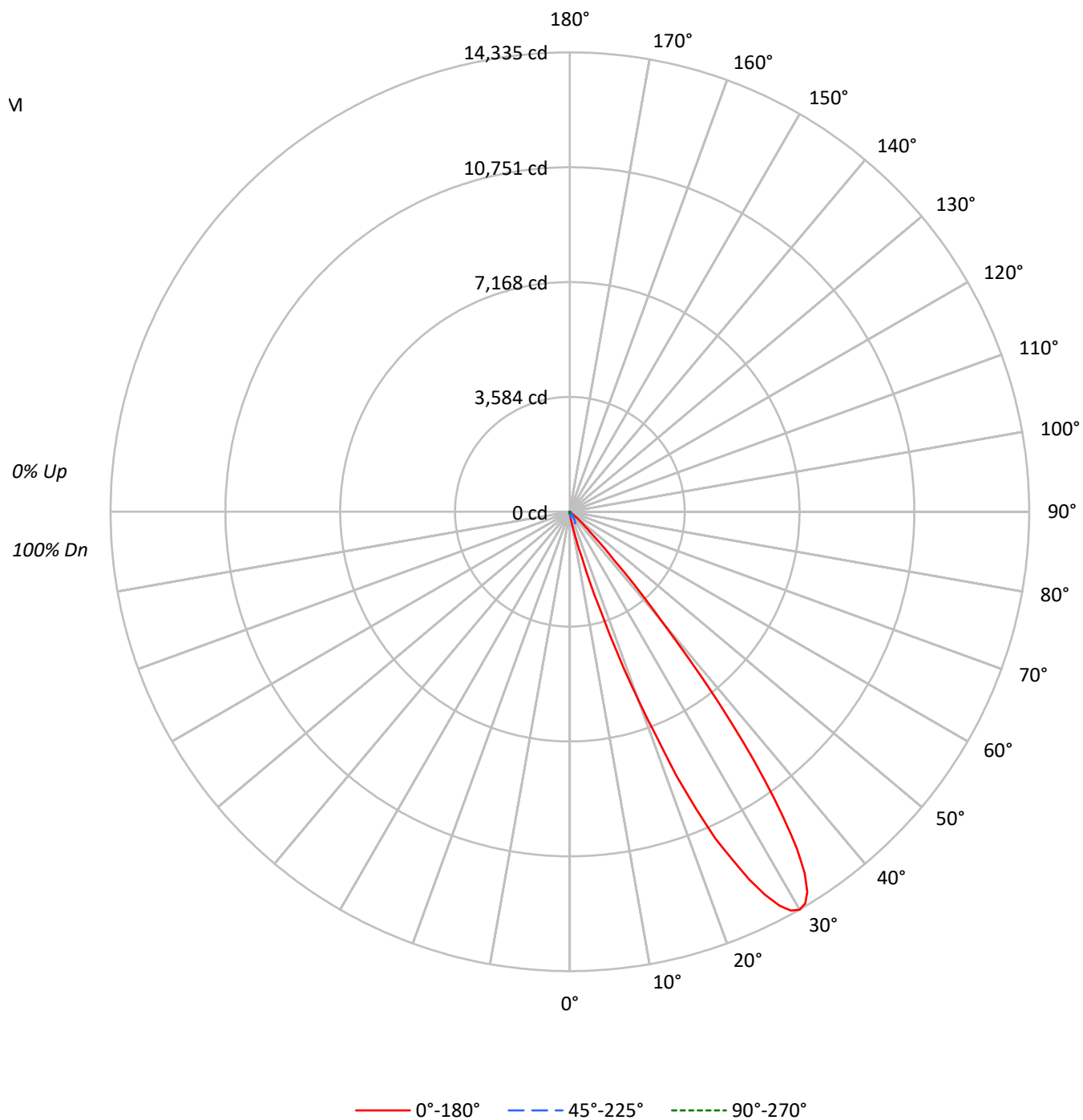
Lumens per Lamp: N/A
Luminaire Lumens: 1516.0 lumens
Efficiency: N/A
Efficacy: 55.3 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P1319469

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1319469

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9334	9334	9334	9334	9334
5°	27004	20400	7987	3302	2213
10°	70249	30394	5299	0	0
15°	280819	49745	2835	0	0
20°	1147360	73329	880	0	0
25°	2268044	72704	0	0	0
30°	2850678	57373	0	0	0
35°	2432283	35195	0	0	0
40°	1001374	11106	0	0	0
45°	216646	4652	0	0	0
50°	27758	0	0	0	0
55°	2402	0	480	0	0
60°	0	0	1102	0	0
65°	0	0	1304	0	0
70°	0	806	2417	0	0
75°	0	1065	3194	0	0
80°	0	1587	4761	0	0
85°	0	3162	9485	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 226754 cd/sqm

TEST NUMBER: P1319469

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.5
10°-20°	106.2	7.0
20°-30°	619.2	40.8
30°-40°	664.0	43.8
40°-50°	112.1	7.4
50°-60°	3.4	0.2
60°-70°	1.0	0.1
70°-80°	1.5	0.1
80°-90°	1.3	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°	732.8	48.3
0°-40°	1396.8	92.1
0°-60°	1512.2	99.7
0°-90°	1516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1516.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	156	118	46	19	13	21
15°	1575	279	16	0	0	729
25°	11935	383	0	0	0	5400
35°	11569	167	0	0	0	6649
45°	890	19	0	0	0	1051
55°	8	0	2	0	0	20
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1319469

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	98.8	100.4	102.0	102.0	102.0	102.0	100.4	100.4	100.4	100.4	98.8
5°	156.2	156.2	156.2	156.2	156.2	156.2	154.6	154.6	154.6	154.6	154.6
7.5°	223.2	220.0	221.6	216.8	220.0	218.4	216.8	220.0	220.0	212.0	212.0
10°	401.7	400.1	384.2	387.4	390.6	389.0	389.0	379.4	377.8	371.4	365.1
12.5°	774.8	792.3	805.0	805.0	774.8	785.9	765.2	770.0	773.2	763.6	730.1
15°	1575.0	1603.7	1573.4	1602.1	1591.0	1549.5	1503.3	1441.1	1465.0	1422.0	1407.6
17.5°	3449.8	3515.1	3488.0	3355.7	3398.7	3296.7	3232.9	3209.0	3142.1	2942.8	2859.9
20°	6260.3	6340.0	6265.0	6110.4	6159.8	5966.9	5917.5	5871.3	5574.8	5466.4	5118.8
21°	7443.1	7508.5	7537.2	7376.2	7277.3	7124.3	6996.8	6955.3	6775.2	6566.3	6209.2
22°	8871.5	8795.0	8622.8	8645.1	8498.4	8372.5	8195.6	8028.2	7827.3	7535.6	7240.7
23°	10054.3	9965.1	9883.8	9784.9	9627.1	9537.8	9284.4	9101.0	8839.6	8527.1	8243.4
24°	11155.9	11018.8	10967.8	10792.4	10747.8	10546.9	10341.3	10102.2	9786.5	9453.3	9139.3
25°	11935.4	11956.2	11911.5	11890.8	11662.8	11457.2	11253.1	10884.9	10615.5	10320.6	9837.5
26°	12770.8	12780.3	12758.0	12605.0	12399.3	12198.5	11935.4	11615.0	11224.5	10897.7	10460.9
27°	13410.0	13371.8	13339.9	13158.2	12989.2	12735.7	12496.6	12117.2	11736.2	11347.2	10840.3
28°	13920.2	13848.4	13808.6	13652.4	13454.7	13143.8	12850.5	12496.6	12115.6	11697.9	11149.5
29°	14227.8	14151.3	14106.7	13934.5	13706.6	13434.0	13137.4	12748.5	12338.8	11873.3	11321.7
30°	14334.7	14290.0	14219.9	14041.3	13805.4	13521.6	13217.1	12794.7	12365.9	11889.2	11305.8
31°	14264.5	14207.1	14140.2	13947.3	13692.2	13421.2	13067.3	12624.1	12173.0	11718.6	11100.1
32°	13985.5	13950.5	13869.2	13610.9	13403.7	13052.9	12703.8	12289.3	11796.8	11308.9	10749.4
33°	13462.6	13405.3	13335.1	13099.2	12834.6	12498.2	12150.7	11726.6	11237.2	10722.3	10106.9
34°	12665.6	12592.2	12504.6	12346.7	12008.8	11717.0	11315.3	10819.5	10414.6	9920.4	9364.1
35°	11568.8	11462.0	11356.8	11237.2	10857.8	10588.4	10317.4	9885.4	9494.8	9029.3	8399.6
36°	10338.1	10296.7	10210.6	9894.9	9772.2	9405.5	9187.1	8691.3	8375.7	7919.8	7400.1
37°	8946.4	8702.5	8826.8	8649.9	8280.0	8165.3	7905.4	7479.8	7138.6	6657.2	6281.0
38°	7454.3	7294.9	7382.5	7204.0	7011.1	6746.5	6548.8	6237.9	5855.3	5477.5	5120.4
39°	5907.9	5778.8	5874.5	5753.3	5460.0	5350.0	5174.6	4937.1	4629.4	4334.5	3996.5
40°	4454.1	4288.3	4415.8	4243.6	4109.7	3929.6	3840.3	3621.9	3430.6	3253.7	3038.5
42.5°	2034.1	2016.6	1987.9	1925.7	1911.4	1913.0	1803.0	1731.3	1634.0	1520.8	1452.3
45°	889.5	911.9	931.0	895.9	894.3	875.2	868.8	821.0	801.9	765.2	720.6
47.5°	438.4	446.4	441.6	451.1	443.2	430.4	427.2	420.9	401.7	400.1	379.4
50°	103.6	102.0	102.0	103.6	102.0	102.0	100.4	97.2	95.6	97.2	92.5
52.5°	33.5	35.1	33.5	31.9	33.5	35.1	33.5	33.5	33.5	33.5	33.5
55°	8.0	8.0	8.0	8.0	8.0	8.0	6.4	6.4	8.0	8.0	8.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1319469

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1319469

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	97.2	82.9	68.5	54.2	39.9	31.9	30.3	28.7
5°	146.7	118.0	78.1	46.2	27.1	19.1	14.3	12.8
7.5°	197.7	146.7	86.1	38.3	19.1	8.0	3.2	1.6
10°	283.8	173.8	89.3	30.3	9.6	0.0	0.0	0.0
12.5°	556.4	199.3	87.7	23.9	1.6	0.0	0.0	0.0
15°	924.6	279.0	81.3	15.9	0.0	0.0	0.0	0.0
17.5°	1514.4	360.3	70.1	11.2	0.0	0.0	0.0	0.0
20°	2348.2	400.1	54.2	4.8	0.0	0.0	0.0	0.0
21°	2753.1	403.3	47.8	3.2	0.0	0.0	0.0	0.0
22°	3103.8	403.3	41.4	1.6	0.0	0.0	0.0	0.0
23°	3429.0	398.5	36.7	0.0	0.0	0.0	0.0	0.0
24°	3696.8	392.2	33.5	0.0	0.0	0.0	0.0	0.0
25°	3897.7	382.6	30.3	0.0	0.0	0.0	0.0	0.0
26°	3990.2	369.8	25.5	0.0	0.0	0.0	0.0	0.0
27°	4036.4	352.3	22.3	0.0	0.0	0.0	0.0	0.0
28°	4004.5	333.2	19.1	0.0	0.0	0.0	0.0	0.0
29°	3924.8	312.5	14.3	0.0	0.0	0.0	0.0	0.0
30°	3821.2	288.5	11.2	0.0	0.0	0.0	0.0	0.0
31°	3669.7	264.6	8.0	0.0	0.0	0.0	0.0	0.0
32°	3462.5	240.7	6.4	0.0	0.0	0.0	0.0	0.0
33°	3185.1	215.2	3.2	0.0	0.0	0.0	0.0	0.0
34°	2842.4	189.7	1.6	0.0	0.0	0.0	0.0	0.0
35°	2458.2	167.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	2128.2	143.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	1796.6	114.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	1504.9	90.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	1245.0	73.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	1031.4	49.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	570.7	33.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	345.9	19.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	200.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	76.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.4	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.2	3.2	1.6	0.0	0.0	0.0
67.5°	0.0	0.0	3.2	4.8	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0



TEST NUMBER: P1319469

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.2	4.8	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)