

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: P1319470

Luminaire Tested: LDSQA3D20R159835D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319470
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: LDSQA3D20R159835D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

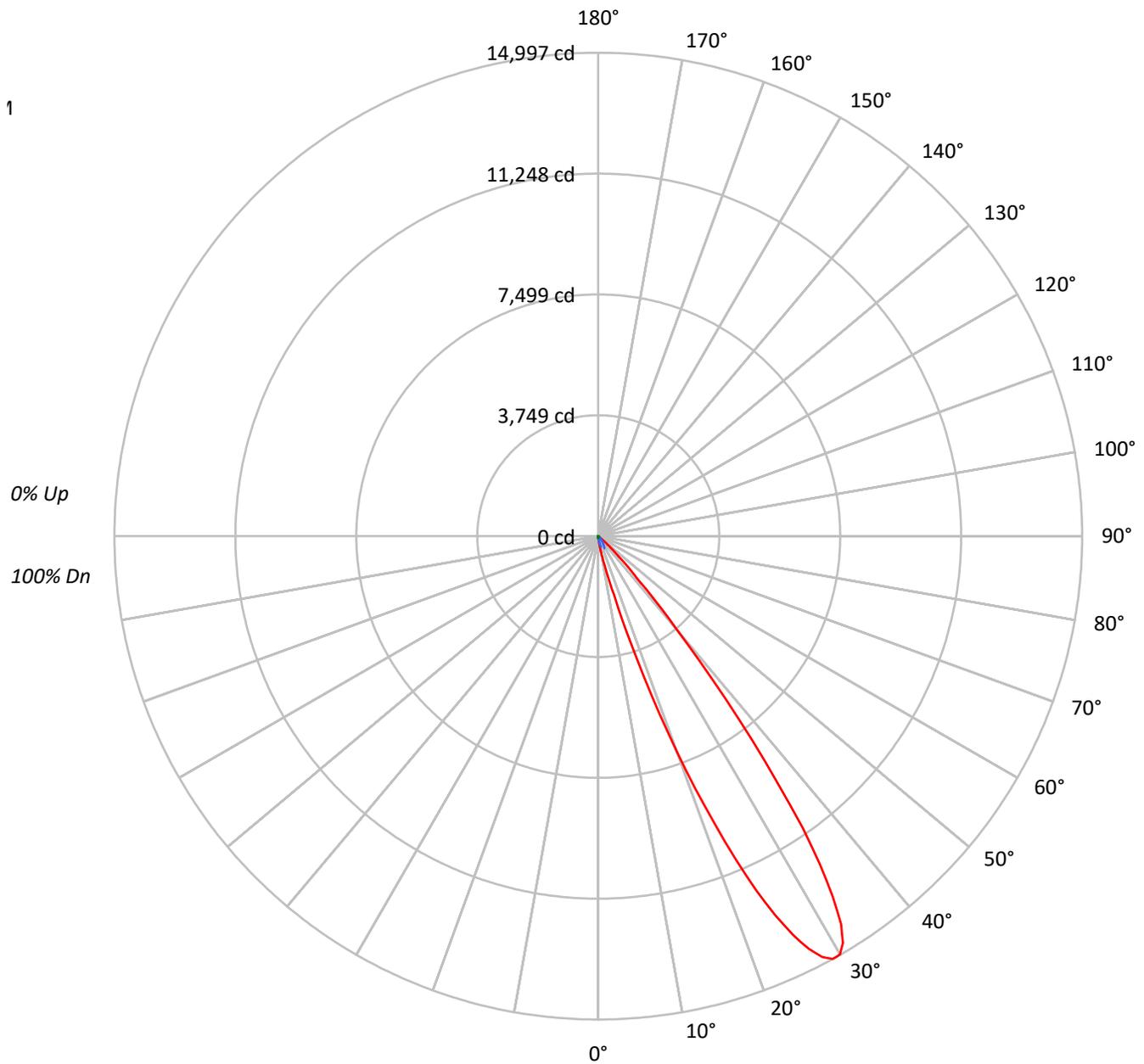
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1638.1 lumens
Efficiency: N/A
Efficacy: 59.8 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): 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

TEST NUMBER: P1319470
CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1319470

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MW

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
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	75	71	79	74	70	77	73	70	68			68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61			61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	41			41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9334	9334	9334	9334	9334
5°	20106	14868	8817	4685	3855
10°	89171	28138	6960	1959	1399
15°	337215	65061	4832	856	571
20°	1296876	91693	2914	293	293
25°	2466147	85987	1520	0	0
30°	2979165	69384	636	0	0
35°	2323544	47242	336	0	0
40°	847911	23291	360	0	360
45°	217718	6990	390	0	779
50°	36707	857	429	429	1286
55°	4774	0	961	1441	2402
60°	551	551	1653	2204	3307
65°	652	652	2608	3260	3912
70°	806	806	3223	3223	4028
75°	1065	1065	4259	3194	4259
80°	0	1587	4761	3174	4761
85°	0	3162	9485	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 217718 cd/sqm



TEST NUMBER: P1319470

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.5
10°-20°	125.5	7.7
20°-30°	696.2	42.5
30°-40°	672.6	41.1
40°-50°	117.0	7.1
50°-60°	8.4	0.5
60°-70°	5.0	0.3
70°-80°	4.0	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°	829.1	50.6
0°-40°	1501.7	91.7
0°-60°	1627.0	99.3
0°-90°	1638.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1638.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	116	86	51	27	22	23
15°	1891	365	27	5	3	843
25°	12978	452	8	0	0	5803
35°	11052	225	2	0	0	6356
45°	894	29	2	0	3	960
55°	16	0	3	5	8	31
65°	2	2	6	8	10	2
75°	2	2	6	5	6	1
85°	0	2	5	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P1319470

CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
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°	79.7	76.5	78.1	78.1	78.1	78.1	78.1	74.9	74.9	76.5	68.5
5°	116.3	116.3	114.7	116.3	116.3	114.7	111.5	109.9	109.9	106.8	86.0
7.5°	232.6	229.4	229.4	226.3	210.3	205.5	202.4	194.4	180.0	176.9	111.5
10°	509.9	511.5	500.3	486.0	484.4	460.5	452.5	438.2	411.1	384.0	160.9
12.5°	925.7	905.0	877.9	879.5	833.3	817.4	780.7	740.9	699.5	656.5	264.5
15°	1891.3	1832.4	1867.4	1781.4	1684.2	1574.2	1462.7	1322.5	1203.0	1075.5	364.9
17.5°	3983.4	4040.8	3943.6	3575.5	3349.2	3083.2	2708.7	2347.0	2037.9	1789.3	446.1
20°	7076.1	7160.6	6830.7	6510.5	5960.8	5361.7	4737.1	4029.6	3352.4	2766.1	500.3
21°	8368.3	8317.4	8181.9	7668.9	7034.7	6340.0	5575.2	4794.4	3973.8	3212.2	505.1
22°	9617.5	9641.4	9325.9	8789.0	8129.3	7359.7	6426.0	5462.0	4577.7	3575.5	497.1
23°	10862.0	10938.4	10521.0	10017.5	9187.3	8318.9	7238.6	6198.2	5105.1	3991.4	481.2
24°	12014.0	11961.4	11679.3	11045.2	10157.7	9141.1	8019.4	6757.4	5538.5	4346.7	468.4
25°	12977.9	12971.6	12528.6	11912.0	10897.0	9770.5	8534.0	7214.7	5909.8	4587.3	452.5
26°	13766.6	13637.6	13288.6	12536.6	11534.3	10345.7	8956.3	7547.8	6118.5	4708.4	436.6
27°	14375.3	14282.9	13814.5	13032.1	11985.3	10670.7	9227.2	7713.5	6214.1	4748.2	415.9
28°	14784.8	14684.4	14185.7	13379.5	12233.8	10874.7	9370.6	7783.6	6214.1	4710.0	396.7
29°	14996.7	14859.7	14362.6	13499.0	12291.2	10898.6	9335.5	7715.1	6116.9	4592.1	374.4
30°	14980.8	14810.3	14289.3	13390.6	12120.7	10702.6	9139.5	7468.1	5897.0	4416.8	348.9
31°	14722.7	14531.5	13949.9	13024.1	11768.6	10333.0	8769.9	7136.7	5595.9	4188.9	323.5
32°	14198.5	13956.3	13389.0	12466.5	11226.8	9780.1	8232.9	6625.2	5145.0	3855.9	296.4
33°	13344.4	13100.6	12492.0	11626.8	10493.9	9079.0	7520.7	6075.5	4631.9	3459.2	274.1
34°	12275.3	12052.2	11528.0	10656.4	9569.7	8191.5	6701.7	5315.5	4099.7	3065.6	250.2
35°	11051.6	10696.2	10221.4	9531.5	8471.9	7085.7	5817.4	4608.0	3551.6	2652.9	224.7
36°	9396.1	9459.8	8956.3	8111.8	7233.9	6147.2	4929.9	3841.6	2970.0	2261.0	202.4
37°	7928.6	7828.2	7507.9	6854.6	6089.8	5011.1	4131.6	3256.8	2498.4	1912.0	178.5
38°	6395.8	6418.1	6104.2	5602.3	4843.8	4120.4	3325.3	2675.3	2090.5	1626.8	156.1
39°	5006.3	4988.8	4904.4	4439.1	3752.4	3277.5	2694.4	2218.0	1741.5	1371.9	132.2
40°	3771.5	3800.2	3602.6	3322.2	2922.2	2531.9	2146.3	1768.6	1440.4	1156.8	103.6
42.5°	1834.0	1878.6	1747.9	1676.2	1499.4	1346.4	1136.1	927.3	788.7	682.0	46.2
45°	893.9	868.4	857.2	822.2	780.7	697.9	618.2	530.6	463.7	399.9	28.7
47.5°	457.3	444.5	444.5	430.2	415.9	388.8	348.9	320.3	288.4	248.6	11.2
50°	137.0	135.4	133.8	135.4	130.7	135.4	138.6	140.2	127.5	125.9	3.2
52.5°	54.2	55.8	54.2	59.0	59.0	57.4	59.0	57.4	55.8	49.4	0.0
55°	15.9	15.9	15.9	15.9	15.9	15.9	17.5	19.1	17.5	19.1	0.0
57.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	0.0
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	1.6
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	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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



TEST NUMBER: P1319470
CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MW

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: P1319470
 CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	54.2	54.2	54.2	54.2	54.2	54.2
2.5°	63.7	55.8	46.2	38.2	35.1	33.5
5°	68.5	51.0	35.1	27.1	23.9	22.3
7.5°	73.3	46.2	27.1	19.1	14.3	12.7
10°	76.5	39.8	20.7	11.2	8.0	8.0
12.5°	76.5	31.9	14.3	6.4	4.8	4.8
15°	74.9	27.1	9.6	4.8	3.2	3.2
17.5°	73.3	20.7	6.4	3.2	1.6	3.2
20°	68.5	15.9	3.2	1.6	1.6	1.6
21°	66.9	14.3	3.2	1.6	1.6	1.6
22°	63.7	12.7	1.6	0.0	1.6	1.6
23°	60.5	9.6	1.6	0.0	0.0	0.0
24°	55.8	8.0	1.6	0.0	0.0	0.0
25°	52.6	8.0	1.6	0.0	0.0	0.0
26°	49.4	4.8	0.0	0.0	0.0	0.0
27°	44.6	3.2	0.0	0.0	0.0	0.0
28°	41.4	3.2	0.0	0.0	0.0	0.0
29°	36.6	3.2	0.0	0.0	0.0	0.0
30°	31.9	3.2	0.0	0.0	0.0	0.0
31°	25.5	1.6	0.0	0.0	0.0	0.0
32°	20.7	1.6	0.0	0.0	0.0	0.0
33°	14.3	1.6	0.0	0.0	0.0	0.0
34°	9.6	1.6	0.0	0.0	0.0	0.0
35°	8.0	1.6	0.0	0.0	0.0	0.0
36°	4.8	1.6	0.0	0.0	0.0	1.6
37°	4.8	1.6	0.0	0.0	0.0	1.6
38°	3.2	1.6	0.0	0.0	0.0	1.6
39°	1.6	1.6	0.0	0.0	0.0	1.6
40°	1.6	1.6	0.0	0.0	0.0	1.6
42.5°	0.0	1.6	0.0	0.0	1.6	3.2
45°	0.0	1.6	0.0	0.0	1.6	3.2
47.5°	0.0	1.6	0.0	0.0	3.2	3.2
50°	0.0	1.6	1.6	1.6	3.2	4.8
52.5°	0.0	3.2	1.6	3.2	4.8	6.4
55°	1.6	3.2	3.2	4.8	6.4	8.0
57.5°	1.6	4.8	4.8	6.4	8.0	8.0
60°	3.2	4.8	6.4	6.4	9.6	9.6
62.5°	3.2	6.4	6.4	6.4	9.6	9.6
65°	3.2	6.4	6.4	8.0	9.6	9.6
67.5°	3.2	6.4	6.4	6.4	8.0	9.6
70°	3.2	6.4	4.8	6.4	8.0	8.0
72.5°	3.2	6.4	4.8	4.8	6.4	8.0
75°	3.2	6.4	4.8	4.8	6.4	6.4
77.5°	3.2	4.8	4.8	3.2	4.8	4.8
80°	3.2	4.8	3.2	3.2	4.8	4.8



TEST NUMBER: P1319470
CATALOG NUMBER: LDSQA3D20R159835D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)