

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: P1320214

Luminaire Tested: LDSQA3D17R209840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R209840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

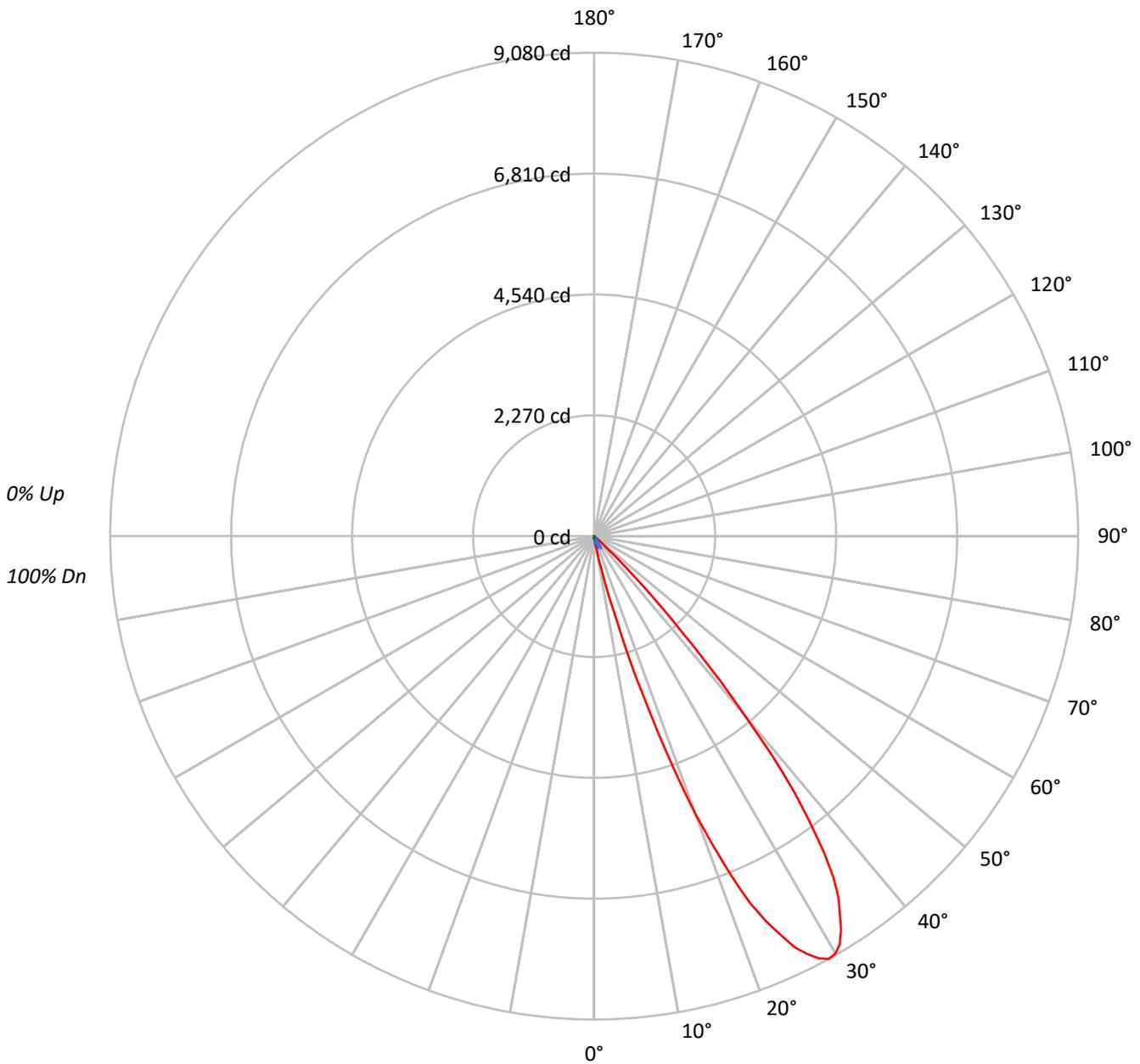
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1253.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1320214
CATALOG NUMBER: LDSQA3D17R209840DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot



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



TEST NUMBER: P1320214

CATALOG NUMBER: LDSQA3D17R209840DE010 3LSQCA30R 1MB

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	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	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	70	66	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	65	60	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7733	7733	7733	7733	7733
5°	16804	11842	7105	3233	2368
10°	41849	20916	5019	647	0
15°	294406	28670	2888	0	0
20°	1017472	48183	1136	0	0
25°	1568347	61569	475	0	0
30°	1800151	47589	0	0	0
35°	1644032	18081	0	0	0
40°	985614	8408	0	0	0
45°	242196	3946	0	0	0
50°	26713	991	0	0	0
55°	3753	0	360	0	0
60°	0	0	861	0	0
65°	0	0	1019	0	0
70°	0	604	1863	0	0
75°	0	799	2462	0	0
80°	0	1190	3670	0	0
85°	0	2371	7311	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°
 Vertical Angle: 45°
 Luminance: 258295 cd/sqm



TEST NUMBER: P1320214

CATALOG NUMBER: LDSQA3D17R209840DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.4
10°-20°	97.9	7.8
20°-30°	495.0	39.5
30°-40°	535.5	42.7
40°-50°	113.1	9.0
50°-60°	3.4	0.3
60°-70°	0.8	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	597.9	47.7
0°-40°	1133.5	90.5
0°-60°	1250.0	99.8
0°-90°	1253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	97	68	41	19	14	14
15°	1651	161	16	0	0	688
25°	8253	324	2	0	0	3730
35°	7820	86	0	0	0	4611
45°	994	16	0	0	0	1094
55°	12	0	1	0	0	22
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1320214

CATALOG NUMBER: LDSQA3D17R209840DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	61.1	59.8	61.1	59.8	61.1	61.1	61.1	59.8	59.8	59.8	59.8
5°	97.2	97.2	96.0	97.2	97.2	97.2	97.2	96.0	96.0	94.7	94.7
7.5°	153.3	153.3	152.0	152.0	153.3	154.5	149.5	152.0	152.0	152.0	150.8
10°	239.3	244.2	239.3	245.5	240.5	236.8	243.0	236.8	236.8	235.5	231.8
12.5°	603.1	589.4	580.7	559.5	580.7	564.5	568.2	564.5	552.0	535.8	525.9
15°	1651.2	1651.2	1602.6	1667.4	1620.0	1637.4	1547.7	1549.0	1502.9	1453.0	1425.6
17.5°	3451.8	3483.0	3450.6	3430.7	3388.3	3327.2	3302.3	3238.8	3155.3	3058.1	3046.8
20°	5551.6	5420.8	5481.8	5425.7	5390.9	5316.1	5232.6	5180.3	5106.7	4983.4	4801.4
21°	6212.1	6207.1	6205.8	6204.6	6153.5	6031.4	5955.4	5850.7	5747.3	5620.1	5468.1
22°	6877.5	6901.2	6911.2	6838.9	6734.2	6679.4	6627.0	6483.7	6320.5	6254.4	6073.7
23°	7488.1	7465.7	7400.9	7367.3	7286.3	7270.1	7114.3	7023.3	6863.8	6791.5	6577.2
24°	7904.3	7893.1	7863.2	7813.4	7748.6	7648.9	7555.4	7412.1	7281.3	7162.9	6963.5
25°	8253.3	8263.2	8208.4	8174.8	8105.0	7992.8	7878.2	7721.2	7599.0	7460.7	7230.2
26°	8598.5	8528.7	8485.1	8435.2	8359.2	8230.8	8119.9	7979.1	7830.8	7676.3	7450.7
27°	8811.5	8749.2	8683.2	8634.6	8547.4	8425.2	8306.9	8151.1	7985.3	7829.6	7597.8
28°	8979.8	8911.2	8846.4	8787.9	8688.2	8557.3	8415.3	8257.0	8085.0	7924.3	7687.5
29°	9079.5	8998.5	8928.7	8862.6	8771.7	8629.6	8486.3	8316.8	8151.1	7982.9	7741.1
30°	9052.1	8982.3	8915.0	8847.7	8755.5	8622.1	8480.1	8318.1	8151.1	7985.3	7739.9
31°	8944.9	8858.9	8810.3	8743.0	8663.3	8527.4	8405.3	8228.3	8077.6	7898.1	7652.6
32°	8739.3	8684.4	8619.6	8567.3	8490.0	8345.5	8225.9	8081.3	7903.1	7756.1	7498.1
33°	8460.1	8409.0	8376.6	8315.6	8240.8	8141.1	7997.8	7865.7	7665.1	7514.3	7256.3
34°	8193.5	8128.7	8047.7	8030.2	7965.4	7837.1	7707.5	7572.9	7393.4	7201.5	6941.1
35°	7819.6	7752.3	7677.5	7683.8	7606.5	7457.0	7324.9	7174.1	7003.4	6777.8	6531.1
36°	7319.9	7275.0	7263.8	7233.9	7145.4	6967.2	6841.4	6652.0	6508.7	6233.3	6021.4
37°	6710.5	6726.7	6645.7	6607.1	6503.7	6379.1	6308.0	6065.0	5898.0	5691.2	5404.6
38°	6094.9	6071.3	5975.3	5999.0	5856.9	5727.3	5526.7	5382.1	5195.2	5003.3	4774.0
39°	5326.1	5267.5	5152.8	5157.8	5050.7	4904.9	4710.5	4539.7	4427.6	4243.1	4023.8
40°	4384.0	4359.0	4319.2	4253.1	4112.3	4048.7	3875.5	3691.1	3596.4	3340.9	3233.8
42.5°	2432.5	2398.8	2331.6	2307.9	2233.1	2158.3	2057.4	1934.0	1874.2	1798.2	1628.7
45°	994.4	1060.5	1044.3	1025.6	968.3	972.0	899.7	908.4	842.4	797.5	766.4
47.5°	219.3	238.0	239.3	230.5	239.3	231.8	228.0	221.8	223.1	226.8	218.1
50°	99.7	98.4	100.9	99.7	98.4	97.2	96.0	92.2	94.7	92.2	89.7
52.5°	38.6	39.9	39.9	37.4	38.6	38.6	38.6	37.4	37.4	37.4	37.4
55°	12.5	12.5	12.5	11.2	11.2	12.5	12.5	12.5	12.5	12.5	11.2
57.5°	1.2	2.5	1.2	2.5	1.2	1.2	1.2	1.2	1.2	2.5	2.5
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: P1320214

CATALOG NUMBER: LDSQA3D17R209840DE010 3LSQCA30R 1MB

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



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	44.9	44.9	44.9	44.9	44.9	44.9	44.9	44.9
2.5°	57.3	52.3	48.6	44.9	37.4	31.2	28.7	28.7
5°	88.5	68.5	51.1	41.1	28.7	18.7	15.0	13.7
7.5°	133.3	92.2	53.6	34.9	18.7	10.0	6.2	5.0
10°	193.2	119.6	56.1	28.7	11.2	3.7	0.0	0.0
12.5°	337.7	143.3	56.1	22.4	5.0	0.0	0.0	0.0
15°	773.9	160.8	53.6	16.2	1.2	0.0	0.0	0.0
17.5°	1607.5	201.9	47.4	11.2	0.0	0.0	0.0	0.0
20°	2567.1	262.9	37.4	6.2	0.0	0.0	0.0	0.0
21°	2962.1	284.1	33.6	5.0	0.0	0.0	0.0	0.0
22°	3246.2	304.1	29.9	3.7	0.0	0.0	0.0	0.0
23°	3559.0	316.5	26.2	2.5	0.0	0.0	0.0	0.0
24°	3789.5	324.0	22.4	2.5	0.0	0.0	0.0	0.0
25°	3932.9	324.0	19.9	2.5	0.0	0.0	0.0	0.0
26°	4017.6	316.5	17.4	1.2	0.0	0.0	0.0	0.0
27°	4037.5	304.1	15.0	1.2	0.0	0.0	0.0	0.0
28°	4012.6	287.9	12.5	0.0	0.0	0.0	0.0	0.0
29°	3934.1	264.2	11.2	0.0	0.0	0.0	0.0	0.0
30°	3849.4	239.3	8.7	0.0	0.0	0.0	0.0	0.0
31°	3704.8	205.6	7.5	0.0	0.0	0.0	0.0	0.0
32°	3537.8	170.7	6.2	0.0	0.0	0.0	0.0	0.0
33°	3314.8	134.6	5.0	0.0	0.0	0.0	0.0	0.0
34°	2985.8	105.9	5.0	0.0	0.0	0.0	0.0	0.0
35°	2690.4	86.0	3.7	0.0	0.0	0.0	0.0	0.0
36°	2304.1	68.5	3.7	0.0	0.0	0.0	0.0	0.0
37°	1973.9	57.3	3.7	0.0	0.0	0.0	0.0	0.0
38°	1652.4	48.6	2.5	0.0	0.0	0.0	0.0	0.0
39°	1340.9	42.4	2.5	0.0	0.0	0.0	0.0	0.0
40°	1069.2	37.4	2.5	0.0	0.0	0.0	0.0	0.0
42.5°	577.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0
45°	319.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	140.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0
50°	47.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	23.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.5	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.5	2.5	1.2	0.0	0.0	0.0
67.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.5	3.7	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.5	3.7	1.2	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)