

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: P1314757

Luminaire Tested: LDSQA3D17R209730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

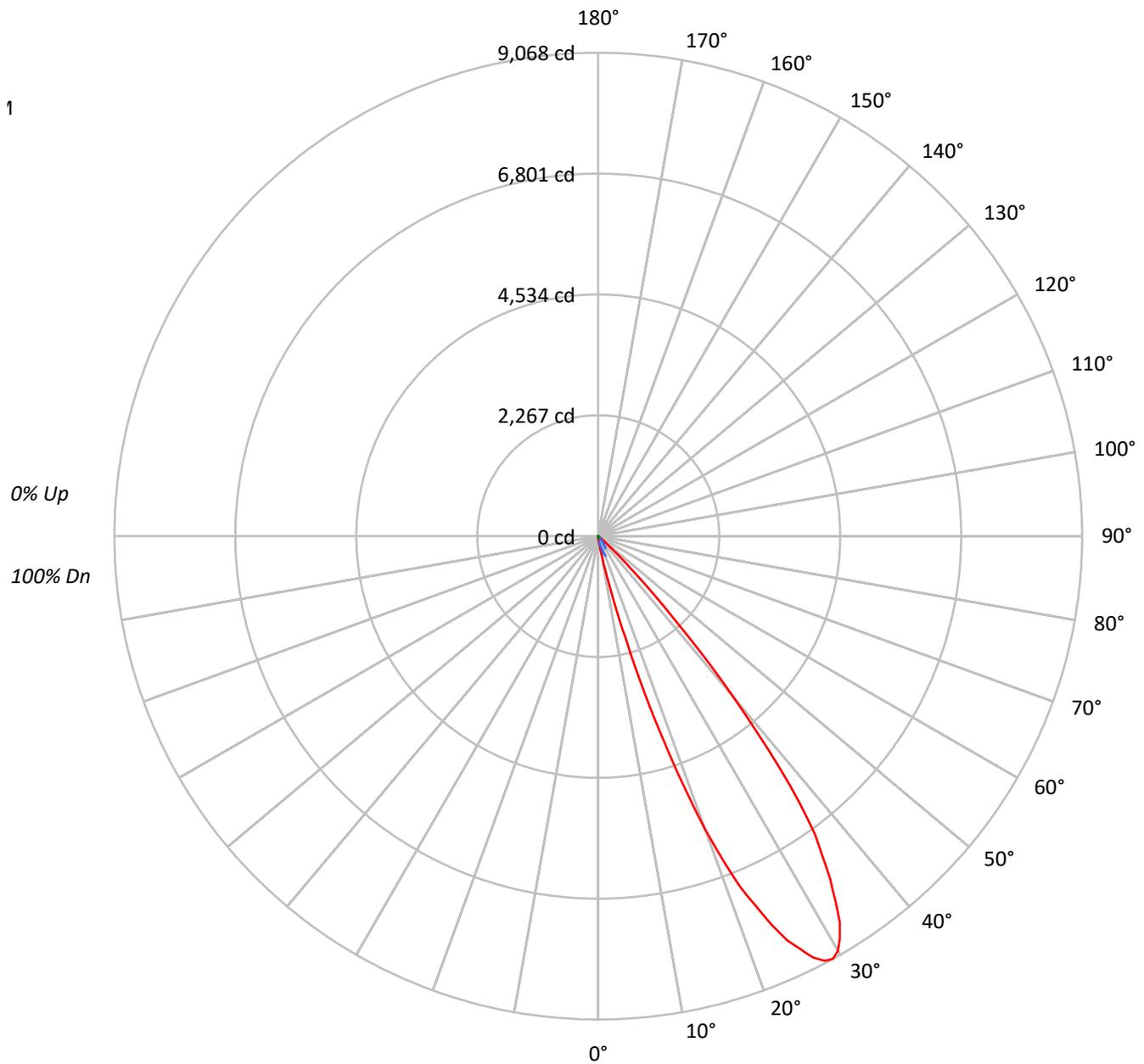
Test Method: LM-79-2019  
Report Number: P1314757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209730DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1272.1 lumens  
Efficiency: N/A  
Efficacy: 60.0 lumens/watt  
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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: P1314757  
CATALOG NUMBER: LDSQA3D17R209730DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1314757

CATALOG NUMBER: LDSQA3D17R209730DE010 3LSQCA30R 1MW

**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°	7561	7561	7561	7561	7561
5°	17357	12966	7175	4391	3786
10°	54685	22594	5858	2413	1819
15°	354314	41775	4315	820	214
20°	1069358	71496	2969	0	0
25°	1588110	72153	1748	0	0
30°	1785912	54847	696	0	0
35°	1540907	32756	484	0	0
40°	887300	11151	0	0	0
45°	216427	4506	292	0	292
50°	25963	1232	322	322	938
55°	3453	0	691	691	1381
60°	413	0	1206	1206	1998
65°	489	489	1875	1875	2812
70°	604	604	2316	2316	2921
75°	0	799	3061	2329	3061
80°	0	1190	3471	2281	3471
85°	0	2371	6916	2371	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2.5°  
 Vertical Angle: 45°  
 Luminance: 217840 cd/sqm



TEST NUMBER: P1314757

CATALOG NUMBER: LDSQA3D17R209730DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.5
10°-20°	117.9	9.3
20°-30°	513.8	40.4
30°-40°	517.4	40.7
40°-50°	103.8	8.2
50°-60°	5.2	0.4
60°-70°	3.4	0.3
70°-80°	3.1	0.2
80°-90°	1.6	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°	637.6	50.1
0°-40°	1155.0	90.8
0°-60°	1264.0	99.4
0°-90°	1272.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	100	75	42	25	22	16
15°	1987	234	24	5	1	778
25°	8357	380	9	0	0	3768
35°	7329	156	2	0	0	4361
45°	889	18	1	0	1	967
55°	12	0	2	2	5	21
65°	1	1	5	5	7	1
75°	0	1	5	4	5	0
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1314757

CATALOG NUMBER: LDSQA3D17R209730DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
2.5°	65.8	65.8	64.6	64.6	63.5	64.6	62.3	63.5	63.5	62.3	56.5
5°	100.4	102.7	101.6	101.6	100.4	101.6	99.2	96.9	94.6	94.6	75.0
7.5°	165.0	163.9	161.6	162.7	159.3	156.9	154.6	153.5	146.6	143.1	98.1
10°	312.7	319.7	313.9	312.7	292.0	290.8	277.0	257.3	240.0	230.8	129.2
12.5°	860.9	897.8	840.1	812.4	796.3	733.9	707.4	639.3	573.5	523.9	163.9
15°	1987.2	2078.4	1961.8	1969.9	1873.0	1695.2	1539.4	1405.6	1247.5	1088.2	234.3
17.5°	3893.6	3819.8	3756.3	3649.0	3451.6	3190.8	2855.0	2514.6	2220.3	1912.2	326.6
20°	5834.7	5768.9	5624.6	5390.4	5138.8	4752.2	4352.9	3841.7	3346.6	2882.7	390.1
21°	6502.8	6480.9	6244.3	6100.1	5712.3	5343.0	4882.6	4335.6	3778.2	3228.9	400.4
22°	7099.4	6967.9	6840.9	6627.5	6242.0	5840.4	5328.0	4752.2	4147.5	3537.0	401.6
23°	7512.6	7452.6	7332.6	7091.4	6708.2	6236.2	5696.2	5093.8	4456.8	3755.1	398.1
24°	7969.6	7893.4	7718.0	7436.4	7049.8	6583.6	5967.4	5369.6	4677.2	3938.6	388.9
25°	8357.3	8238.4	8030.7	7727.2	7304.9	6823.6	6203.9	5547.3	4830.7	4062.1	379.7
26°	8608.9	8544.3	8277.7	7947.6	7495.3	6999.0	6366.6	5683.5	4929.9	4118.6	364.7
27°	8870.8	8752.0	8490.0	8110.4	7619.9	7113.3	6459.0	5749.3	4964.5	4121.0	346.2
28°	9020.9	8891.6	8595.0	8195.7	7700.7	7176.8	6512.1	5770.0	4957.6	4085.2	324.3
29°	9068.2	8905.5	8615.8	8209.6	7720.3	7181.4	6504.0	5740.0	4896.4	3997.5	298.9
30°	8980.5	8814.3	8539.6	8143.8	7658.0	7123.7	6429.0	5640.8	4788.0	3871.7	275.8
31°	8788.9	8648.1	8382.7	7985.7	7519.5	6988.7	6259.3	5478.1	4603.3	3703.2	249.3
32°	8536.2	8397.7	8136.9	7778.0	7303.7	6768.2	6027.4	5224.2	4386.4	3451.6	222.7
33°	8156.5	8076.9	7842.6	7499.9	7025.6	6453.2	5715.8	4920.7	4077.1	3172.4	199.6
34°	7772.2	7671.8	7508.0	7132.9	6622.8	6051.6	5309.6	4501.8	3699.7	2859.6	177.7
35°	7329.1	7269.1	7011.7	6711.7	6199.3	5615.4	4878.0	4094.4	3260.1	2511.1	155.8
36°	6899.8	6807.5	6514.4	6197.0	5699.6	5068.4	4340.2	3604.0	2880.4	2184.5	132.7
37°	6276.6	6135.8	5927.0	5592.3	5010.7	4472.9	3808.2	3125.0	2413.0	1831.4	107.3
38°	5543.8	5478.1	5188.4	4851.4	4370.2	3860.1	3202.4	2623.1	1990.7	1529.1	81.9
39°	4679.5	4678.3	4401.4	4157.9	3687.0	3227.8	2634.6	2129.1	1643.3	1231.3	63.5
40°	3946.7	3810.5	3639.7	3333.9	2972.7	2582.7	2063.4	1666.4	1275.2	992.4	49.6
42.5°	2069.1	2057.6	1957.2	1727.5	1525.6	1295.9	1030.5	858.6	671.6	547.0	31.2
45°	888.6	894.4	825.1	790.5	712.0	616.2	520.5	433.9	371.6	301.2	18.5
47.5°	225.0	215.8	213.5	221.6	221.6	214.6	192.7	181.2	167.3	153.5	10.4
50°	96.9	94.6	92.3	92.3	86.6	83.1	77.3	70.4	64.6	57.7	4.6
52.5°	35.8	36.9	38.1	36.9	36.9	35.8	35.8	34.6	31.2	27.7	2.3
55°	11.5	11.5	11.5	12.7	12.7	13.8	13.8	13.8	13.8	12.7	0.0
57.5°	2.3	2.3	3.5	3.5	3.5	3.5	3.5	3.5	4.6	4.6	0.0
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	1.2	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.0	0.0	0.0	1.2	0.0	1.2	1.2	0.0	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2



TEST NUMBER: P1314757

CATALOG NUMBER: LDSQA3D17R209730DE010 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	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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: P1314757

CATALOG NUMBER: LDSQA3D17R209730DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	43.9	43.9	43.9	43.9	43.9	43.9
2.5°	50.8	45.0	38.1	32.3	31.2	30.0
5°	56.5	41.5	31.2	25.4	23.1	21.9
7.5°	61.2	38.1	25.4	18.5	16.2	15.0
10°	63.5	33.5	20.8	13.8	10.4	10.4
12.5°	64.6	28.9	15.0	9.2	5.8	5.8
15°	63.5	24.2	11.5	4.6	1.2	1.2
17.5°	57.7	19.6	6.9	1.2	0.0	0.0
20°	49.6	16.2	4.6	0.0	0.0	0.0
21°	47.3	13.8	3.5	0.0	0.0	0.0
22°	43.9	12.7	2.3	0.0	0.0	0.0
23°	40.4	11.5	2.3	0.0	0.0	0.0
24°	36.9	10.4	1.2	0.0	0.0	0.0
25°	34.6	9.2	1.2	0.0	0.0	0.0
26°	32.3	8.1	1.2	0.0	0.0	0.0
27°	28.9	6.9	0.0	0.0	0.0	0.0
28°	26.5	5.8	0.0	0.0	0.0	0.0
29°	23.1	4.6	0.0	0.0	0.0	0.0
30°	19.6	3.5	0.0	0.0	0.0	0.0
31°	16.2	3.5	0.0	0.0	0.0	0.0
32°	13.8	2.3	0.0	0.0	0.0	0.0
33°	11.5	2.3	0.0	0.0	0.0	0.0
34°	10.4	2.3	0.0	0.0	0.0	0.0
35°	9.2	2.3	0.0	0.0	0.0	0.0
36°	6.9	1.2	0.0	0.0	0.0	0.0
37°	5.8	1.2	0.0	0.0	0.0	0.0
38°	4.6	1.2	0.0	0.0	0.0	0.0
39°	3.5	0.0	0.0	0.0	0.0	0.0
40°	3.5	0.0	0.0	0.0	0.0	0.0
42.5°	1.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	1.2	0.0	0.0	1.2	1.2
47.5°	0.0	1.2	0.0	0.0	1.2	2.3
50°	0.0	1.2	1.2	1.2	2.3	3.5
52.5°	0.0	2.3	1.2	1.2	3.5	3.5
55°	1.2	2.3	1.2	2.3	4.6	4.6
57.5°	1.2	2.3	2.3	3.5	4.6	5.8
60°	2.3	3.5	3.5	3.5	5.8	5.8
62.5°	2.3	3.5	4.6	4.6	5.8	6.9
65°	2.3	4.6	4.6	4.6	5.8	6.9
67.5°	3.5	4.6	4.6	4.6	5.8	6.9
70°	3.5	4.6	4.6	4.6	5.8	5.8
72.5°	3.5	4.6	3.5	4.6	4.6	5.8
75°	3.5	4.6	3.5	3.5	4.6	4.6
77.5°	2.3	3.5	3.5	2.3	3.5	3.5
80°	2.3	3.5	2.3	2.3	3.5	3.5



TEST NUMBER: P1314757  
CATALOG NUMBER: LDSQA3D17R209730DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	2.3	3.5	2.3	1.2	2.3	2.3
85°	2.3	3.5	2.3	1.2	1.2	1.2
87.5°	2.3	3.5	2.3	1.2	0.0	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)