

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: P1316871

Luminaire Tested: LDSQA3D20R259740D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

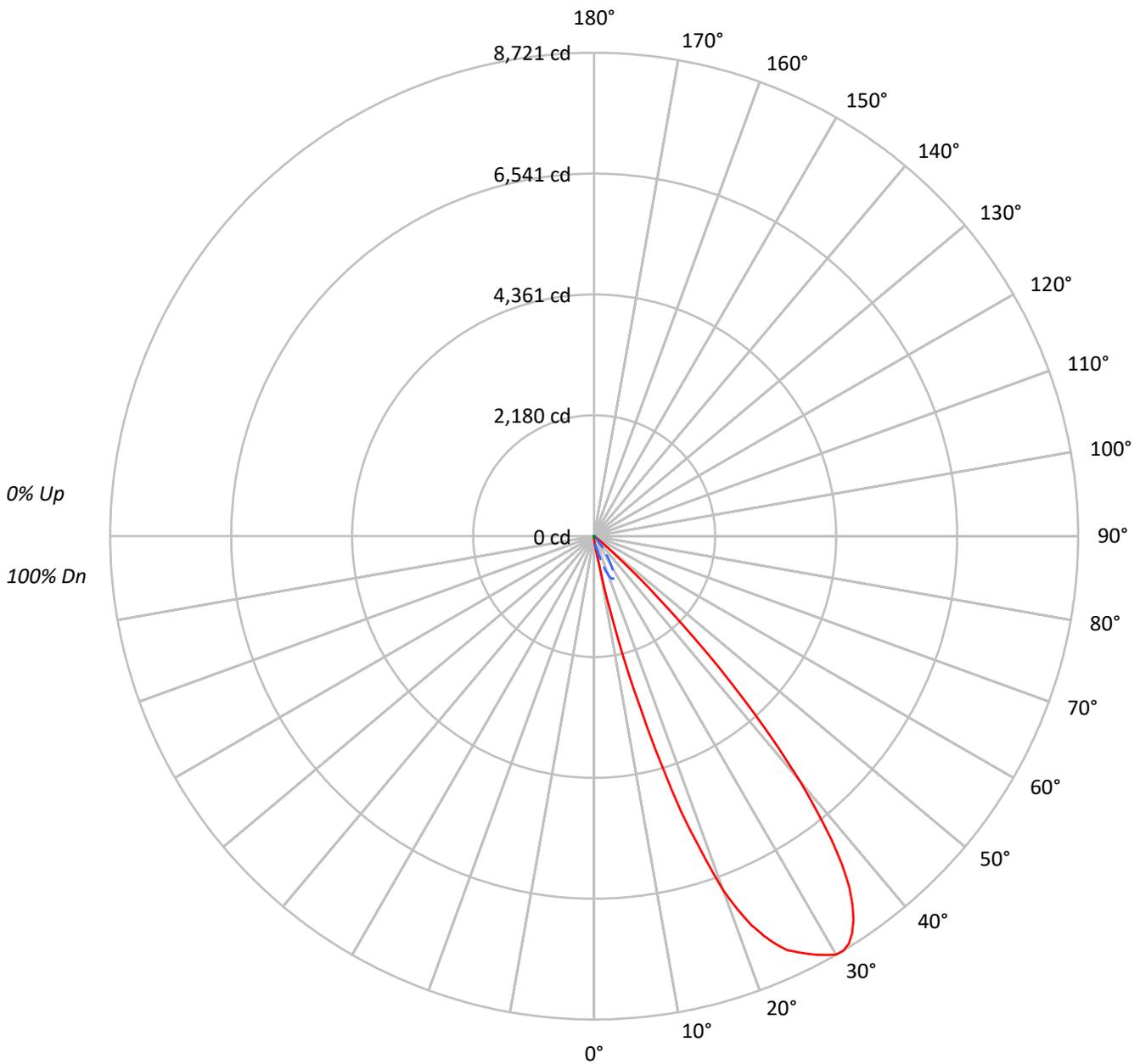
Test Method: LM-79-2019  
Report Number: P1316871  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R259740D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1709.0 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 2.4 / 0.45 / 1.25  
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 (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: P1316871  
CATALOG NUMBER: LDSQA3D20R259740D010 3LSQCA30R 1MB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P1316871

CATALOG NUMBER: LDSQA3D20R259740D010 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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	83	79	77	75
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	60	55	51	49
8	70	59	52	47	69	58	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°	9300	9300	9300	9300	9300
5°	29148	20383	8488	4529	3388
10°	91882	36935	6296	577	0
15°	568236	70339	3798	0	0
20°	1245907	137108	1191	0	0
25°	1566143	157703	0	0	0
30°	1733710	122064	0	0	0
35°	1706622	69171	0	0	0
40°	1297215	18031	0	0	0
45°	525455	7964	0	0	0
50°	58329	884	0	0	0
55°	4414	0	480	0	0
60°	0	0	551	0	0
65°	0	0	1345	0	0
70°	0	806	1662	0	0
75°	0	1065	3261	0	0
80°	0	1587	4860	0	0
85°	0	3162	9683	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 525455 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.5	0.5
10°-20°	176.5	10.3
20°-30°	617.1	36.1
30°-40°	688.4	40.3
40°-50°	207.9	12.2
50°-60°	6.9	0.4
60°-70°	0.9	0.1
70°-80°	1.5	0.1
80°-90°	1.4	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°	802.0	46.9
0°-40°	1490.4	87.2
0°-60°	1705.2	99.8
0°-90°	1709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1709.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	169	118	49	26	20	26
15°	3187	394	21	0	0	1060
25°	8242	830	0	0	0	3760
35°	8117	329	0	0	0	4873
45°	2157	33	0	0	0	1863
55°	15	0	2	0	0	46
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: P1316871

CATALOG NUMBER: LDSQA3D20R259740D010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	93.3	96.6	94.9	96.6	94.9	94.9	94.9	96.6	94.9	94.9	94.9
5°	168.6	170.2	170.2	168.6	168.6	171.9	168.6	170.2	165.3	168.6	167.0
7.5°	276.6	273.4	273.4	275.0	275.0	271.7	270.1	266.8	270.1	270.1	265.2
10°	525.4	522.2	514.0	510.7	514.0	514.0	497.6	500.9	502.5	487.8	482.9
12.5°	1543.6	1532.1	1555.0	1519.0	1497.7	1463.4	1483.0	1415.9	1401.2	1391.4	1368.4
15°	3187.0	3273.8	3236.1	3239.4	3245.9	3164.1	3191.9	3090.4	3005.3	2979.1	2961.1
17.5°	5197.1	5223.3	5188.9	5172.6	5166.0	5126.7	5079.2	5028.5	4963.0	4905.7	4858.3
20°	6798.0	6778.3	6719.4	6726.0	6655.6	6619.6	6578.6	6527.9	6477.1	6393.7	6313.5
21°	7220.3	7163.0	7164.6	7125.4	7123.7	7077.9	7005.9	6953.5	6907.6	6812.7	6762.0
22°	7567.3	7554.2	7524.8	7495.3	7464.2	7441.3	7361.1	7334.9	7241.6	7163.0	7091.0
23°	7837.4	7842.3	7816.1	7796.5	7753.9	7744.1	7641.0	7605.0	7541.1	7421.6	7348.0
24°	8061.6	8053.5	8024.0	7989.6	7965.1	7942.2	7863.6	7804.7	7734.3	7636.1	7564.0
25°	8241.7	8222.1	8202.4	8176.2	8136.9	8110.8	8030.5	7965.1	7904.5	7794.8	7696.6
26°	8348.1	8353.0	8321.9	8302.3	8267.9	8241.7	8158.2	8081.3	8006.0	7888.1	7799.7
27°	8456.1	8451.2	8423.4	8393.9	8357.9	8348.1	8251.5	8171.3	8094.4	7970.0	7865.2
28°	8556.0	8542.9	8520.0	8485.6	8446.3	8416.9	8323.6	8240.1	8156.6	8024.0	7909.4
29°	8639.5	8626.4	8611.6	8567.4	8516.7	8497.1	8397.2	8295.7	8212.2	8076.4	7955.3
30°	8718.0	8693.5	8659.1	8621.5	8572.4	8534.7	8429.9	8341.6	8243.3	8092.8	7976.5
31°	8721.3	8688.6	8664.0	8624.7	8569.1	8523.3	8413.6	8323.6	8209.0	8068.2	7942.2
32°	8664.0	8647.7	8608.4	8565.8	8511.8	8466.0	8344.8	8249.9	8141.9	7991.3	7865.2
33°	8534.7	8518.3	8495.4	8451.2	8380.8	8338.3	8230.2	8125.5	8019.1	7883.2	7739.2
34°	8356.3	8336.6	8307.2	8263.0	8191.0	8146.8	8060.0	7952.0	7839.0	7698.3	7564.0
35°	8117.3	8079.7	8071.5	8006.0	7938.9	7927.4	7824.3	7711.4	7596.8	7441.3	7325.1
36°	7821.0	7776.8	7747.4	7724.5	7680.3	7626.2	7524.8	7434.7	7287.4	7187.6	7023.9
37°	7416.7	7362.7	7390.5	7328.3	7259.6	7236.7	7107.3	7025.5	6901.1	6765.2	6626.1
38°	6945.3	6940.4	6933.8	6906.0	6788.2	6727.6	6673.6	6586.8	6478.8	6315.1	6126.9
39°	6349.5	6359.3	6324.9	6328.2	6269.3	6208.7	6133.4	6035.2	5904.2	5755.3	5603.1
40°	5770.0	5630.9	5655.4	5572.0	5576.9	5486.8	5388.6	5301.9	5218.4	5087.4	4879.5
42.5°	3992.4	3971.1	3897.4	3845.0	3868.0	3751.7	3622.4	3501.3	3385.1	3237.8	3056.1
45°	2157.4	2108.3	2123.0	2037.9	2037.9	1985.5	1949.5	1848.0	1740.0	1672.9	1568.1
47.5°	802.1	811.9	829.9	795.5	756.2	779.2	744.8	744.8	726.8	705.5	676.0
50°	217.7	221.0	217.7	217.7	212.8	209.5	203.0	201.3	199.7	194.8	186.6
52.5°	88.4	83.5	83.5	85.1	85.1	81.8	83.5	83.5	81.8	80.2	80.2
55°	14.7	16.4	16.4	16.4	16.4	14.7	14.7	16.4	18.0	16.4	16.4
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



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CATALOG NUMBER: LDSQA3D20R259740D010 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°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
2.5°	91.7	80.2	67.1	55.7	44.2	37.6	34.4	36.0
5°	155.5	117.9	76.9	49.1	34.4	26.2	21.3	19.6
7.5°	239.0	162.1	86.8	42.6	26.2	13.1	8.2	6.5
10°	366.7	211.2	93.3	36.0	16.4	3.3	0.0	0.0
12.5°	941.2	258.6	94.9	29.5	6.5	0.0	0.0	0.0
15°	1934.8	394.5	91.7	21.3	1.6	0.0	0.0	0.0
17.5°	3216.5	604.0	80.2	14.7	0.0	0.0	0.0	0.0
20°	4462.1	748.1	63.8	6.5	0.0	0.0	0.0	0.0
21°	4837.0	790.6	57.3	4.9	0.0	0.0	0.0	0.0
22°	5143.1	821.7	50.7	3.3	0.0	0.0	0.0	0.0
23°	5398.4	838.1	44.2	1.6	0.0	0.0	0.0	0.0
24°	5576.9	841.4	40.9	1.6	0.0	0.0	0.0	0.0
25°	5662.0	829.9	36.0	0.0	0.0	0.0	0.0	0.0
26°	5694.7	807.0	32.7	0.0	0.0	0.0	0.0	0.0
27°	5670.2	777.5	29.5	0.0	0.0	0.0	0.0	0.0
28°	5626.0	733.3	24.6	0.0	0.0	0.0	0.0	0.0
29°	5539.2	674.4	21.3	0.0	0.0	0.0	0.0	0.0
30°	5455.7	613.8	18.0	0.0	0.0	0.0	0.0	0.0
31°	5360.8	559.8	14.7	0.0	0.0	0.0	0.0	0.0
32°	5244.6	497.6	11.5	0.0	0.0	0.0	0.0	0.0
33°	5051.4	440.3	8.2	0.0	0.0	0.0	0.0	0.0
34°	4781.3	386.3	6.5	0.0	0.0	0.0	0.0	0.0
35°	4419.6	329.0	4.9	0.0	0.0	0.0	0.0	0.0
36°	4023.5	268.4	3.3	0.0	0.0	0.0	0.0	0.0
37°	3538.9	194.8	3.3	0.0	0.0	0.0	0.0	0.0
38°	3033.1	122.8	1.6	0.0	0.0	0.0	0.0	0.0
39°	2515.9	93.3	1.6	0.0	0.0	0.0	0.0	0.0
40°	2042.8	80.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1093.4	54.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	644.9	32.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	360.1	13.1	0.0	0.0	0.0	0.0	0.0	0.0
50°	129.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	50.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	18.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	1.6	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.3	0.0	0.0	0.0	0.0
65°	0.0	0.0	3.3	3.3	1.6	0.0	0.0	0.0
67.5°	0.0	1.6	3.3	3.3	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.3	3.3	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.3	4.9	1.6	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	1.6	3.3	4.9	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.3	4.9	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.3	4.9	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)