

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: P1316699

Luminaire Tested: LDSQA3D17R209740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

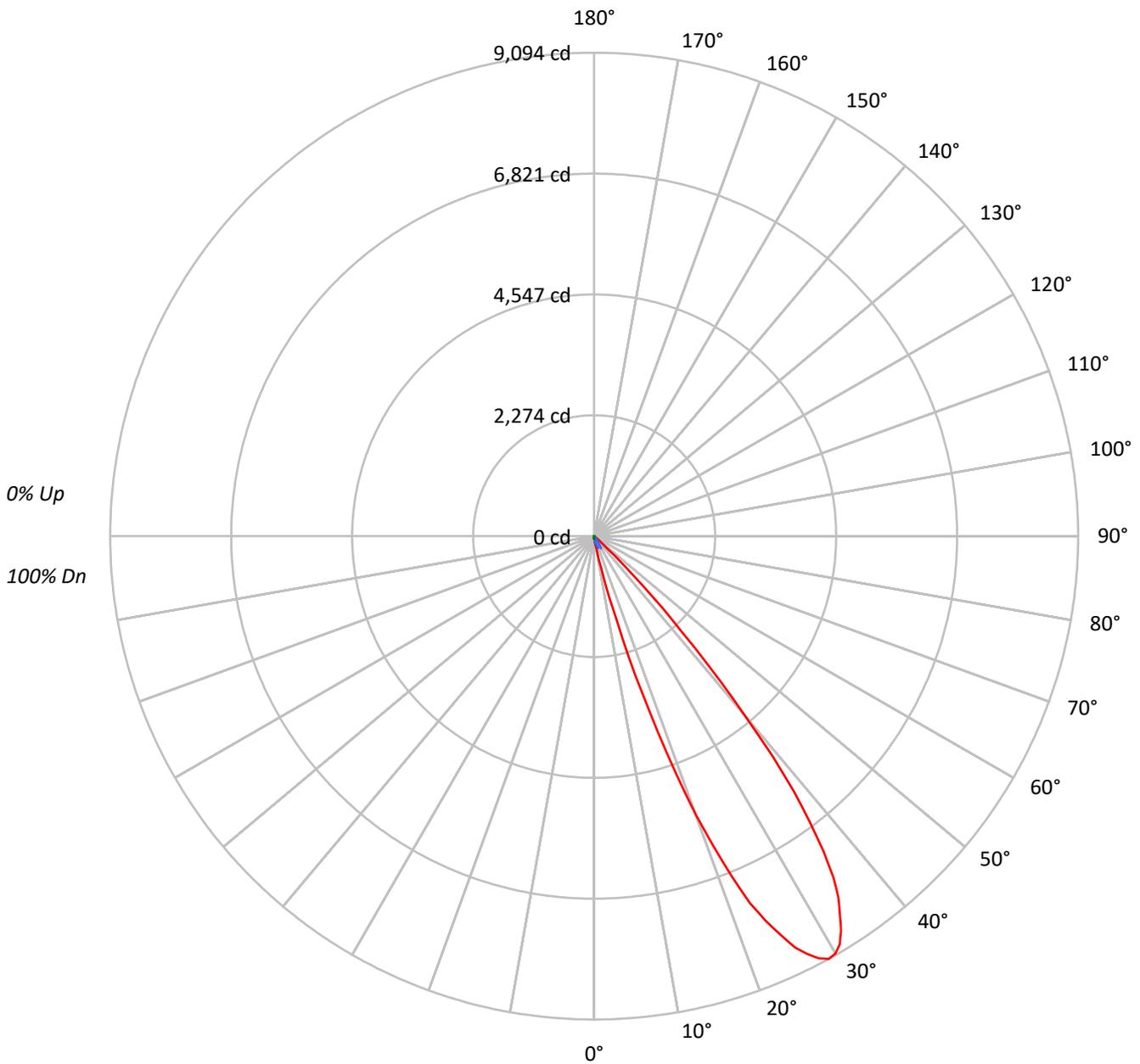
Test Method: LM-79-2019  
Report Number: P1316699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209740DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1254.9 lumens  
Efficiency: N/A  
Efficacy: 59.2 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): 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

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### Luminous Intensity Polar Plot



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



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**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°	16839	11860	7123	3233	2368
10°	41901	20951	5019	647	0
15°	294869	28706	2888	0	0
20°	1019103	48275	1136	0	0
25°	1570836	61664	475	0	0
30°	1803015	47648	0	0	0
35°	1646660	18102	0	0	0
40°	987188	8408	0	0	0
45°	242585	3946	0	0	0
50°	26766	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: 258709 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.1	0.4
10°-20°	98.0	7.8
20°-30°	495.8	39.5
30°-40°	536.4	42.7
40°-50°	113.3	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°	598.9	47.7
0°-40°	1135.3	90.5
0°-60°	1252.0	99.8
0°-90°	1254.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	97	69	41	19	14	14
15°	1654	161	16	0	0	689
25°	8266	324	2	0	0	3736
35°	7832	86	0	0	0	4618
45°	996	16	0	0	0	1096
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	



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**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°	61.2	59.9	61.2	59.9	61.2	61.2	61.2	59.9	59.9	59.9	59.9
5°	97.4	97.4	96.1	97.4	97.4	97.4	97.4	96.1	96.1	94.9	94.9
7.5°	153.5	153.5	152.3	152.3	153.5	154.8	149.8	152.3	152.3	152.3	151.0
10°	239.6	244.6	239.6	245.9	240.9	237.1	243.4	237.1	237.1	235.9	232.2
12.5°	604.1	590.4	581.6	560.4	581.6	565.4	569.2	565.4	552.9	536.7	526.7
15°	1653.8	1653.8	1605.1	1670.0	1622.6	1640.1	1550.2	1551.4	1505.3	1455.3	1427.9
17.5°	3457.4	3488.6	3456.1	3436.1	3393.7	3332.5	3307.6	3243.9	3160.3	3062.9	3051.7
20°	5560.5	5429.4	5490.6	5434.4	5399.5	5324.6	5240.9	5188.5	5114.9	4991.3	4809.1
21°	6222.0	6217.0	6215.7	6214.5	6163.3	6041.0	5964.9	5860.0	5756.4	5629.1	5476.8
22°	6888.5	6912.2	6922.2	6849.8	6745.0	6690.0	6637.6	6494.1	6330.6	6264.4	6083.4
23°	7500.1	7477.6	7412.7	7379.0	7297.9	7281.7	7125.6	7034.5	6874.8	6802.4	6587.7
24°	7917.0	7905.7	7875.8	7825.8	7760.9	7661.1	7567.5	7423.9	7292.9	7174.3	6974.6
25°	8266.4	8276.4	8221.5	8187.8	8117.9	8005.6	7890.8	7733.5	7611.2	7472.6	7241.7
26°	8612.2	8542.3	8498.6	8448.7	8372.5	8244.0	8132.9	7991.9	7843.3	7688.6	7462.6
27°	8825.6	8763.2	8697.1	8648.4	8561.0	8438.7	8320.1	8164.1	7998.1	7842.1	7609.9
28°	8994.1	8925.5	8860.6	8801.9	8702.0	8571.0	8428.7	8270.2	8097.9	7936.9	7699.8
29°	9094.0	9012.8	8942.9	8876.8	8785.7	8643.4	8499.8	8330.1	8164.1	7995.6	7753.5
30°	9066.5	8996.6	8929.2	8861.8	8769.4	8635.9	8493.6	8331.3	8164.1	7998.1	7752.2
31°	8959.2	8873.0	8824.4	8757.0	8677.1	8541.0	8418.7	8241.5	8090.5	7910.7	7664.8
32°	8753.2	8698.3	8633.4	8581.0	8503.6	8358.8	8239.0	8094.2	7915.7	7768.4	7510.1
33°	8473.6	8422.5	8390.0	8328.8	8254.0	8154.1	8010.6	7878.3	7677.3	7526.3	7267.9
34°	8206.5	8141.6	8060.5	8043.0	7978.1	7849.6	7719.8	7585.0	7405.2	7213.0	6952.1
35°	7832.1	7764.7	7689.8	7696.0	7618.7	7468.9	7336.6	7185.6	7014.6	6788.6	6541.5
36°	7331.6	7286.7	7275.4	7245.5	7156.8	6978.4	6852.3	6662.6	6519.0	6243.2	6031.0
37°	6721.2	6737.5	6656.3	6617.6	6514.1	6389.2	6318.1	6074.7	5907.5	5700.3	5413.2
38°	6104.7	6080.9	5984.8	6008.6	5866.3	5736.5	5535.5	5390.7	5203.5	5011.3	4781.6
39°	5334.6	5275.9	5161.1	5166.1	5058.7	4912.7	4718.0	4547.0	4434.6	4249.9	4030.2
40°	4391.0	4366.0	4326.1	4259.9	4118.9	4055.2	3881.7	3697.0	3602.1	3346.3	3238.9
42.5°	2436.4	2402.7	2335.3	2311.6	2236.7	2161.8	2060.7	1937.1	1877.2	1801.1	1631.3
45°	996.0	1062.2	1045.9	1027.2	969.8	973.6	901.2	909.9	843.7	798.8	767.6
47.5°	219.7	238.4	239.6	230.9	239.6	232.2	228.4	222.2	223.4	227.2	218.4
50°	99.9	98.6	101.1	99.9	98.6	97.4	96.1	92.4	94.9	92.4	89.9
52.5°	38.7	39.9	39.9	37.4	38.7	38.7	38.7	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



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**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°	57.4	52.4	48.7	44.9	37.4	31.2	28.7	28.7
5°	88.6	68.6	51.2	41.2	28.7	18.7	15.0	13.7
7.5°	133.6	92.4	53.7	34.9	18.7	10.0	6.2	5.0
10°	193.5	119.8	56.2	28.7	11.2	3.7	0.0	0.0
12.5°	338.2	143.5	56.2	22.5	5.0	0.0	0.0	0.0
15°	775.1	161.0	53.7	16.2	1.2	0.0	0.0	0.0
17.5°	1610.1	202.2	47.4	11.2	0.0	0.0	0.0	0.0
20°	2571.2	263.4	37.4	6.2	0.0	0.0	0.0	0.0
21°	2966.8	284.6	33.7	5.0	0.0	0.0	0.0	0.0
22°	3251.4	304.5	30.0	3.7	0.0	0.0	0.0	0.0
23°	3564.7	317.0	26.2	2.5	0.0	0.0	0.0	0.0
24°	3795.6	324.5	22.5	2.5	0.0	0.0	0.0	0.0
25°	3939.1	324.5	20.0	2.5	0.0	0.0	0.0	0.0
26°	4024.0	317.0	17.5	1.2	0.0	0.0	0.0	0.0
27°	4044.0	304.5	15.0	1.2	0.0	0.0	0.0	0.0
28°	4019.0	288.3	12.5	0.0	0.0	0.0	0.0	0.0
29°	3940.4	264.6	11.2	0.0	0.0	0.0	0.0	0.0
30°	3855.5	239.6	8.7	0.0	0.0	0.0	0.0	0.0
31°	3710.7	205.9	7.5	0.0	0.0	0.0	0.0	0.0
32°	3543.5	171.0	6.2	0.0	0.0	0.0	0.0	0.0
33°	3320.1	134.8	5.0	0.0	0.0	0.0	0.0	0.0
34°	2990.5	106.1	5.0	0.0	0.0	0.0	0.0	0.0
35°	2694.7	86.1	3.7	0.0	0.0	0.0	0.0	0.0
36°	2307.8	68.6	3.7	0.0	0.0	0.0	0.0	0.0
37°	1977.1	57.4	3.7	0.0	0.0	0.0	0.0	0.0
38°	1655.0	48.7	2.5	0.0	0.0	0.0	0.0	0.0
39°	1343.0	42.4	2.5	0.0	0.0	0.0	0.0	0.0
40°	1070.9	37.4	2.5	0.0	0.0	0.0	0.0	0.0
42.5°	577.9	25.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	319.5	16.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	141.0	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)