

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: P1312660

Luminaire Tested: LDSQA3D17R159050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

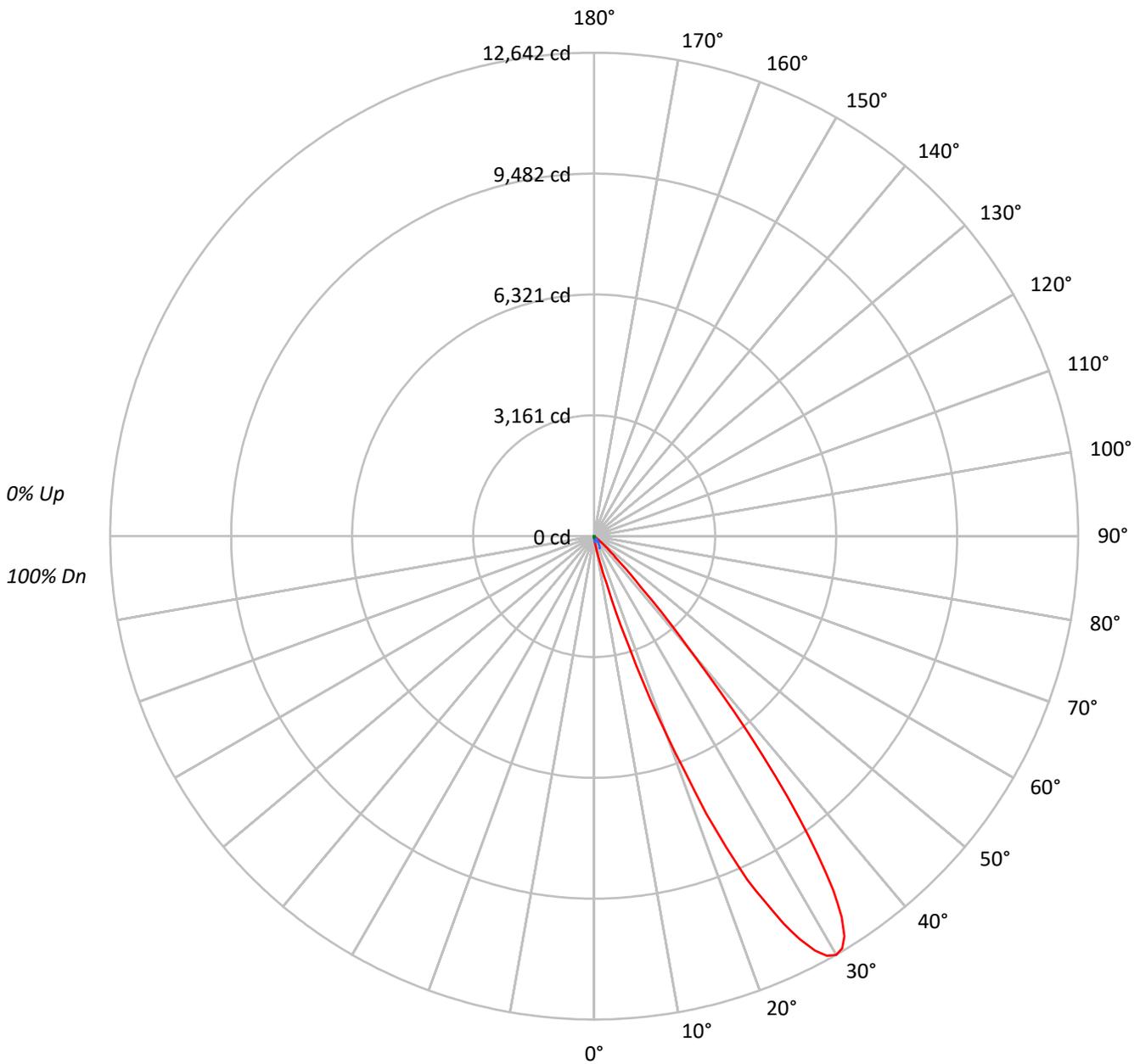
Test Method: LM-79-2019  
Report Number: P1312660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159050DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1337.0 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
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 (A<sub>in</sub>): 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	94	96	95	94	92
2	106	100	96	92	104	99	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	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	8232	8232	8232	8232	8232
5°	23823	17980	7054	2922	1936
10°	61960	26792	4669	0	0
15°	247674	43861	2514	0	0
20°	1011882	64678	770	0	0
25°	2000259	64115	0	0	0
30°	2514078	50611	0	0	0
35°	2145088	31032	0	0	0
40°	883141	9802	0	0	0
45°	191073	4116	0	0	0
50°	24489	0	0	0	0
55°	2102	0	420	0	0
60°	0	0	964	0	0
65°	0	0	1141	0	0
70°	0	705	2115	0	0
75°	0	932	2795	0	0
80°	0	1389	4166	0	0
85°	0	2766	8299	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 199987 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.4	0.5
10°-20°	93.7	7.0
20°-30°	546.1	40.8
30°-40°	585.6	43.8
40°-50°	98.8	7.4
50°-60°	3.0	0.2
60°-70°	0.9	0.1
70°-80°	1.3	0.1
80°-90°	1.2	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°	646.2	48.3
0°-40°	1231.8	92.1
0°-60°	1333.6	99.8
0°-90°	1337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	138	104	41	17	11	19
15°	1389	246	14	0	0	643
25°	10526	337	0	0	0	4763
35°	10203	148	0	0	0	5864
45°	784	17	0	0	0	927
55°	7	0	1	0	0	18
65°	0	0	3	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°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	87.2	88.6	90.0	90.0	90.0	90.0	88.6	88.6	88.6	88.6	87.2
5°	137.8	137.8	137.8	137.8	137.8	137.8	136.4	136.4	136.4	136.4	136.4
7.5°	196.8	194.0	195.4	191.2	194.0	192.6	191.2	194.0	194.0	187.0	187.0
10°	354.3	352.9	338.8	341.6	344.5	343.0	343.0	334.6	333.2	327.6	322.0
12.5°	683.3	698.7	710.0	710.0	683.3	693.1	674.8	679.1	681.9	673.4	643.9
15°	1389.1	1414.4	1387.7	1413.0	1403.1	1366.6	1325.8	1271.0	1292.0	1254.1	1241.4
17.5°	3042.4	3100.1	3076.2	2959.5	2997.4	2907.5	2851.2	2830.1	2771.1	2595.3	2522.2
20°	5521.1	5591.4	5525.3	5388.9	5432.5	5262.4	5218.8	5178.0	4916.5	4820.9	4514.4
21°	6564.3	6621.9	6647.2	6505.2	6418.1	6283.1	6170.6	6134.1	5975.2	5791.0	5476.1
22°	7824.0	7756.5	7604.7	7624.3	7495.0	7383.9	7227.9	7080.3	6903.1	6645.8	6385.7
23°	8867.2	8788.5	8716.8	8629.6	8490.4	8411.7	8188.1	8026.4	7795.9	7520.3	7270.1
24°	9838.7	9717.8	9672.8	9518.1	9478.8	9301.6	9120.3	8909.4	8631.0	8337.2	8060.2
25°	10526.2	10544.5	10505.1	10486.8	10285.8	10104.4	9924.4	9599.7	9362.1	9102.0	8676.0
26°	11262.9	11271.3	11251.6	11116.7	10935.3	10758.2	10526.2	10243.6	9899.1	9610.9	9225.7
27°	11826.7	11792.9	11764.8	11604.5	11455.5	11232.0	11021.1	10686.5	10350.4	10007.4	9560.3
28°	12276.6	12213.3	12178.1	12040.4	11866.0	11591.9	11333.2	11021.1	10685.1	10316.7	9833.1
29°	12547.9	12480.4	12441.1	12289.2	12088.2	11847.8	11586.3	11243.2	10881.9	10471.4	9984.9
30°	12642.1	12602.7	12540.9	12383.4	12175.3	11925.1	11656.5	11284.0	10905.8	10485.4	9970.8
31°	12580.2	12529.6	12470.6	12300.5	12075.5	11836.5	11524.4	11133.5	10735.7	10335.0	9789.5
32°	12334.2	12303.3	12231.6	12003.8	11821.0	11511.7	11203.8	10838.3	10403.9	9973.7	9480.2
33°	11873.1	11822.4	11760.6	11552.5	11319.1	11022.5	10716.0	10342.0	9910.4	9456.3	8913.6
34°	11170.1	11105.4	11028.1	10888.9	10590.9	10333.6	9979.3	9542.0	9184.9	8749.1	8258.4
35°	10202.8	10108.6	10015.8	9910.4	9575.8	9338.2	9099.2	8718.2	8373.7	7963.2	7407.8
36°	9117.4	9080.9	9005.0	8726.6	8618.3	8295.0	8102.4	7665.1	7386.7	6984.6	6526.3
37°	7890.1	7675.0	7784.6	7628.6	7302.4	7201.2	6972.0	6596.6	6295.7	5871.2	5539.4
38°	6574.1	6433.5	6510.9	6353.4	6183.3	5949.9	5775.6	5501.4	5164.0	4830.8	4515.8
39°	5210.4	5096.5	5180.8	5074.0	4815.3	4718.3	4563.6	4354.2	4082.8	3822.7	3524.7
40°	3928.2	3781.9	3894.4	3742.6	3624.5	3465.6	3386.9	3194.3	3025.6	2869.5	2679.7
42.5°	1794.0	1778.5	1753.2	1698.4	1685.7	1687.1	1590.1	1526.8	1441.1	1341.3	1280.8
45°	784.5	804.2	821.1	790.1	788.7	771.9	766.2	724.1	707.2	674.8	635.5
47.5°	386.6	393.7	389.4	397.9	390.8	379.6	376.8	371.2	354.3	352.9	334.6
50°	91.4	90.0	90.0	91.4	90.0	90.0	88.6	85.8	84.4	85.8	81.5
52.5°	29.5	30.9	29.5	28.1	29.5	30.9	29.5	29.5	29.5	29.5	29.5
55°	7.0	7.0	7.0	7.0	7.0	7.0	5.6	5.6	7.0	7.0	7.0
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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**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°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
2.5°	85.8	73.1	60.5	47.8	35.1	28.1	26.7	25.3
5°	129.3	104.0	68.9	40.8	23.9	16.9	12.7	11.2
7.5°	174.3	129.3	75.9	33.7	16.9	7.0	2.8	1.4
10°	250.3	153.2	78.7	26.7	8.4	0.0	0.0	0.0
12.5°	490.7	175.7	77.3	21.1	1.4	0.0	0.0	0.0
15°	815.4	246.0	71.7	14.1	0.0	0.0	0.0	0.0
17.5°	1335.6	317.7	61.9	9.8	0.0	0.0	0.0	0.0
20°	2070.9	352.9	47.8	4.2	0.0	0.0	0.0	0.0
21°	2428.0	355.7	42.2	2.8	0.0	0.0	0.0	0.0
22°	2737.3	355.7	36.6	1.4	0.0	0.0	0.0	0.0
23°	3024.2	351.5	32.3	0.0	0.0	0.0	0.0	0.0
24°	3260.3	345.9	29.5	0.0	0.0	0.0	0.0	0.0
25°	3437.5	337.4	26.7	0.0	0.0	0.0	0.0	0.0
26°	3519.0	326.2	22.5	0.0	0.0	0.0	0.0	0.0
27°	3559.8	310.7	19.7	0.0	0.0	0.0	0.0	0.0
28°	3531.7	293.8	16.9	0.0	0.0	0.0	0.0	0.0
29°	3461.4	275.6	12.7	0.0	0.0	0.0	0.0	0.0
30°	3370.0	254.5	9.8	0.0	0.0	0.0	0.0	0.0
31°	3236.4	233.4	7.0	0.0	0.0	0.0	0.0	0.0
32°	3053.7	212.3	5.6	0.0	0.0	0.0	0.0	0.0
33°	2809.0	189.8	2.8	0.0	0.0	0.0	0.0	0.0
34°	2506.8	167.3	1.4	0.0	0.0	0.0	0.0	0.0
35°	2167.9	147.6	0.0	0.0	0.0	0.0	0.0	0.0
36°	1876.9	126.5	0.0	0.0	0.0	0.0	0.0	0.0
37°	1584.5	101.2	0.0	0.0	0.0	0.0	0.0	0.0
38°	1327.2	80.1	0.0	0.0	0.0	0.0	0.0	0.0
39°	1098.0	64.7	0.0	0.0	0.0	0.0	0.0	0.0
40°	909.6	43.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	503.3	29.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	305.1	16.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	177.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	67.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	22.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5.6	0.0	0.0	1.4	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.4	2.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.4	2.8	1.4	0.0	0.0	0.0
65°	0.0	0.0	2.8	2.8	1.4	0.0	0.0	0.0
67.5°	0.0	0.0	2.8	4.2	1.4	0.0	0.0	0.0
70°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
72.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
75°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
77.5°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
80°	0.0	1.4	2.8	4.2	1.4	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	1.4	2.8	4.2	1.4	0.0	0.0	0.0
85°	0.0	1.4	2.8	4.2	1.4	0.0	0.0	0.0
87.5°	0.0	1.4	2.8	4.2	1.4	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)