

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: P1320200

Luminaire Tested: LDSQA3D17R159840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

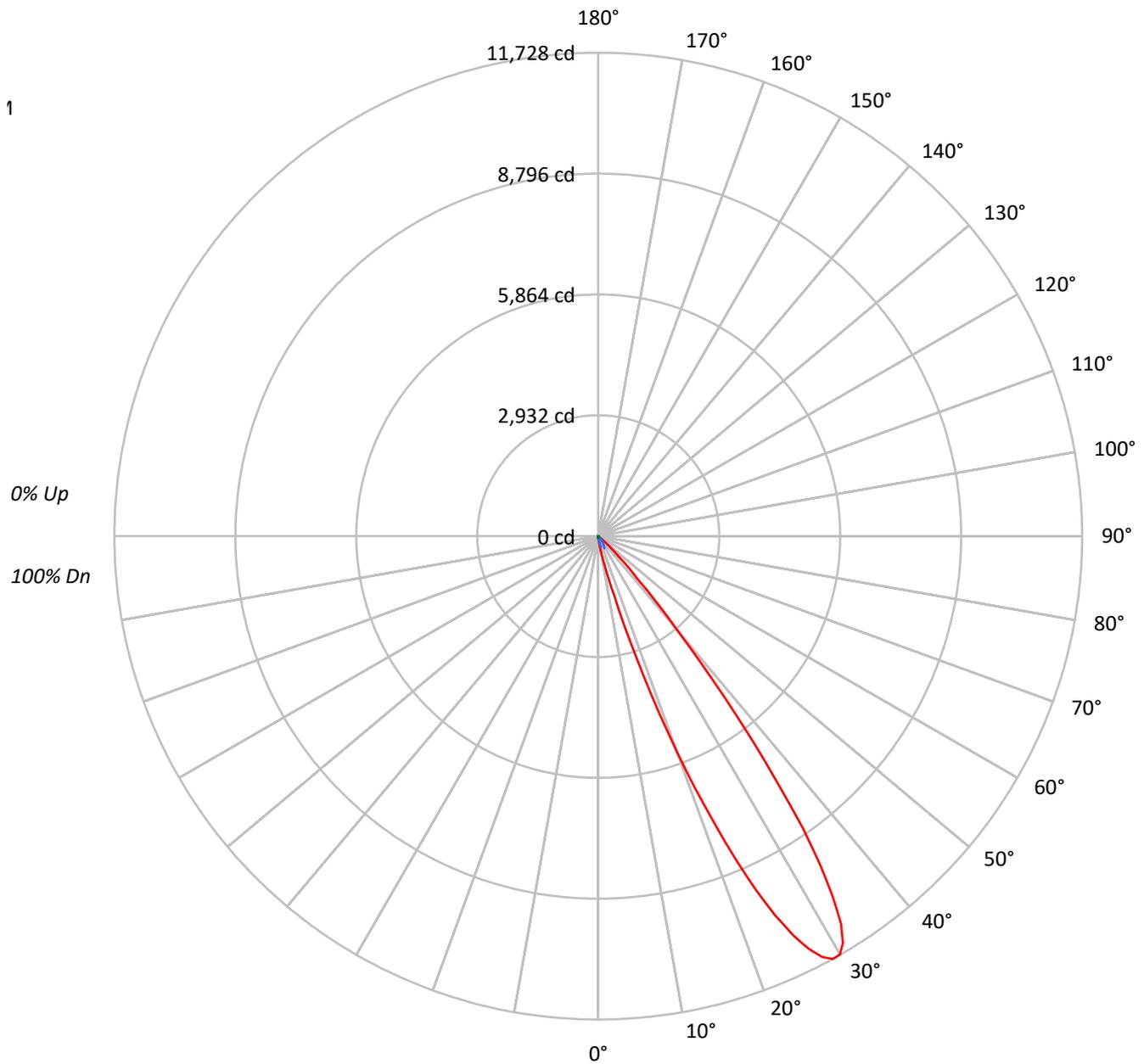
Test Method: LM-79-2019  
Report Number: P1320200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R159840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1280.9 lumens  
Efficiency: N/A  
Efficacy: 62.8 lumens/watt  
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26  
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 (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				
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	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	69	64	72	67	64	71	66	63	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

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

	0°	45°	90°	135°	180°
0°	7302	7302	7302	7302	7302
5°	15732	11635	6898	3665	3008
10°	69724	22017	5456	1521	1084
15°	263721	50886	3780	660	446
20°	1014228	71716	2291	220	220
25°	1928657	67250	1178	0	0
30°	2329849	54270	497	0	0
35°	1817127	36940	252	0	0
40°	663109	18210	270	0	270
45°	170273	5456	292	0	609
50°	28722	670	322	322	991
55°	3753	0	751	1111	1862
60°	413	413	1274	1722	2583
65°	489	489	2038	2527	3056
70°	604	604	2518	2518	3122
75°	799	799	3327	2462	3327
80°	0	1190	3670	2479	3670
85°	0	2371	7311	2371	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 170273 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.8	0.5
10°-20°	98.1	7.7
20°-30°	544.4	42.5
30°-40°	526.0	41.1
40°-50°	91.5	7.1
50°-60°	6.6	0.5
60°-70°	3.9	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°	648.4	50.6
0°-40°	1174.4	91.7
0°-60°	1272.4	99.3
0°-90°	1280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1280.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	91	67	40	21	17	18
15°	1479	285	21	4	2	659
25°	10149	354	6	0	0	4538
35°	8643	176	1	0	0	4971
45°	699	22	1	0	2	751
55°	12	0	2	4	6	24
65°	1	1	5	6	8	1
75°	1	1	5	4	5	1
85°	0	1	4	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
2.5°	62.3	59.8	61.1	61.1	61.1	61.1	61.1	58.6	58.6	59.8	53.6
5°	91.0	91.0	89.7	91.0	91.0	89.7	87.2	86.0	86.0	83.5	67.3
7.5°	181.9	179.4	179.4	176.9	164.5	160.7	158.3	152.0	140.8	138.3	87.2
10°	398.7	400.0	391.3	380.1	378.8	360.1	353.9	342.7	321.5	300.3	125.9
12.5°	724.0	707.8	686.6	687.8	651.7	639.2	610.6	579.4	547.0	513.4	206.9
15°	1479.1	1433.0	1460.4	1393.1	1317.1	1231.1	1143.9	1034.3	940.8	841.1	285.4
17.5°	3115.2	3160.1	3084.1	2796.2	2619.3	2411.2	2118.4	1835.5	1593.8	1399.4	348.9
20°	5533.9	5599.9	5342.0	5091.5	4661.6	4193.1	3704.6	3151.4	2621.8	2163.2	391.3
21°	6544.5	6504.6	6398.7	5997.4	5501.5	4958.2	4360.1	3749.5	3107.8	2512.1	395.0
22°	7521.4	7540.1	7293.4	6873.4	6357.6	5755.7	5025.5	4271.6	3580.0	2796.2	388.8
23°	8494.6	8554.4	8227.9	7834.2	7185.0	6505.8	5661.0	4847.3	3992.5	3121.5	376.3
24°	9395.5	9354.4	9133.8	8637.9	7943.8	7148.8	6271.6	5284.7	4331.4	3399.3	366.4
25°	10149.4	10144.4	9798.0	9315.8	8522.0	7641.0	6674.1	5642.3	4621.8	3587.5	353.9
26°	10766.2	10665.3	10392.4	9804.2	9020.5	8090.9	7004.3	5902.7	4785.0	3682.2	341.4
27°	11242.2	11170.0	10803.6	10191.8	9373.1	8345.1	7216.1	6032.3	4859.8	3713.4	325.2
28°	11562.5	11484.0	11093.9	10463.4	9567.5	8504.6	7328.3	6087.2	4859.8	3683.4	310.3
29°	11728.2	11621.0	11232.3	10556.9	9612.3	8523.3	7300.8	6033.6	4783.7	3591.2	292.8
30°	11715.7	11582.4	11174.9	10472.1	9479.0	8370.0	7147.6	5840.4	4611.8	3454.2	272.9
31°	11513.9	11364.3	10909.5	10185.5	9203.6	8080.9	6858.5	5581.2	4376.3	3276.0	253.0
32°	11103.9	10914.5	10470.9	9749.4	8780.0	7648.5	6438.6	5181.2	4023.6	3015.5	231.8
33°	10436.0	10245.4	9769.4	9092.7	8206.8	7100.2	5881.5	4751.3	3622.4	2705.3	214.3
34°	9599.9	9425.4	9015.5	8333.9	7484.0	6406.2	5241.1	4157.0	3206.2	2397.5	195.6
35°	8642.9	8365.0	7993.7	7454.1	6625.5	5541.4	4549.5	3603.7	2777.5	2074.7	175.7
36°	7348.2	7398.0	7004.3	6343.8	5657.3	4807.4	3855.4	3004.3	2322.7	1768.2	158.3
37°	6200.5	6122.0	5871.6	5360.7	4762.6	3919.0	3231.1	2547.0	1953.9	1495.3	139.6
38°	5001.8	5019.3	4773.8	4381.3	3788.1	3222.4	2600.6	2092.2	1634.9	1272.3	122.1
39°	3915.2	3901.5	3835.5	3471.6	2934.5	2563.2	2107.1	1734.6	1362.0	1072.9	103.4
40°	2949.5	2971.9	2817.4	2598.1	2285.3	1980.0	1678.5	1383.2	1126.5	904.7	81.0
42.5°	1434.3	1469.1	1367.0	1310.9	1172.6	1052.9	888.5	725.2	616.8	533.3	36.1
45°	699.1	679.1	670.4	643.0	610.6	545.8	483.5	414.9	362.6	312.8	22.4
47.5°	357.6	347.7	347.7	336.4	325.2	304.0	272.9	250.5	225.5	194.4	8.7
50°	107.2	105.9	104.7	105.9	102.2	105.9	108.4	109.7	99.7	98.4	2.5
52.5°	42.4	43.6	42.4	46.1	46.1	44.9	46.1	44.9	43.6	38.6	0.0
55°	12.5	12.5	12.5	12.5	12.5	12.5	13.7	15.0	13.7	15.0	0.0
57.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.0
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	1.2
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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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



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**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



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CATALOG NUMBER: LDSQA3D17R159840DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	42.4	42.4	42.4	42.4	42.4	42.4
2.5°	49.8	43.6	36.1	29.9	27.4	26.2
5°	53.6	39.9	27.4	21.2	18.7	17.4
7.5°	57.3	36.1	21.2	15.0	11.2	10.0
10°	59.8	31.2	16.2	8.7	6.2	6.2
12.5°	59.8	24.9	11.2	5.0	3.7	3.7
15°	58.6	21.2	7.5	3.7	2.5	2.5
17.5°	57.3	16.2	5.0	2.5	1.2	2.5
20°	53.6	12.5	2.5	1.2	1.2	1.2
21°	52.3	11.2	2.5	1.2	1.2	1.2
22°	49.8	10.0	1.2	0.0	1.2	1.2
23°	47.4	7.5	1.2	0.0	0.0	0.0
24°	43.6	6.2	1.2	0.0	0.0	0.0
25°	41.1	6.2	1.2	0.0	0.0	0.0
26°	38.6	3.7	0.0	0.0	0.0	0.0
27°	34.9	2.5	0.0	0.0	0.0	0.0
28°	32.4	2.5	0.0	0.0	0.0	0.0
29°	28.7	2.5	0.0	0.0	0.0	0.0
30°	24.9	2.5	0.0	0.0	0.0	0.0
31°	19.9	1.2	0.0	0.0	0.0	0.0
32°	16.2	1.2	0.0	0.0	0.0	0.0
33°	11.2	1.2	0.0	0.0	0.0	0.0
34°	7.5	1.2	0.0	0.0	0.0	0.0
35°	6.2	1.2	0.0	0.0	0.0	0.0
36°	3.7	1.2	0.0	0.0	0.0	1.2
37°	3.7	1.2	0.0	0.0	0.0	1.2
38°	2.5	1.2	0.0	0.0	0.0	1.2
39°	1.2	1.2	0.0	0.0	0.0	1.2
40°	1.2	1.2	0.0	0.0	0.0	1.2
42.5°	0.0	1.2	0.0	0.0	1.2	2.5
45°	0.0	1.2	0.0	0.0	1.2	2.5
47.5°	0.0	1.2	0.0	0.0	2.5	2.5
50°	0.0	1.2	1.2	1.2	2.5	3.7
52.5°	0.0	2.5	1.2	2.5	3.7	5.0
55°	1.2	2.5	2.5	3.7	5.0	6.2
57.5°	1.2	3.7	3.7	5.0	6.2	6.2
60°	2.5	3.7	5.0	5.0	7.5	7.5
62.5°	2.5	5.0	5.0	5.0	7.5	7.5
65°	2.5	5.0	5.0	6.2	7.5	7.5
67.5°	2.5	5.0	5.0	5.0	6.2	7.5
70°	2.5	5.0	3.7	5.0	6.2	6.2
72.5°	2.5	5.0	3.7	3.7	5.0	6.2
75°	2.5	5.0	3.7	3.7	5.0	5.0
77.5°	2.5	3.7	3.7	2.5	3.7	3.7
80°	2.5	3.7	2.5	2.5	3.7	3.7



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)