

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: P1310759

Luminaire Tested: LDSQA3D24R159035D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

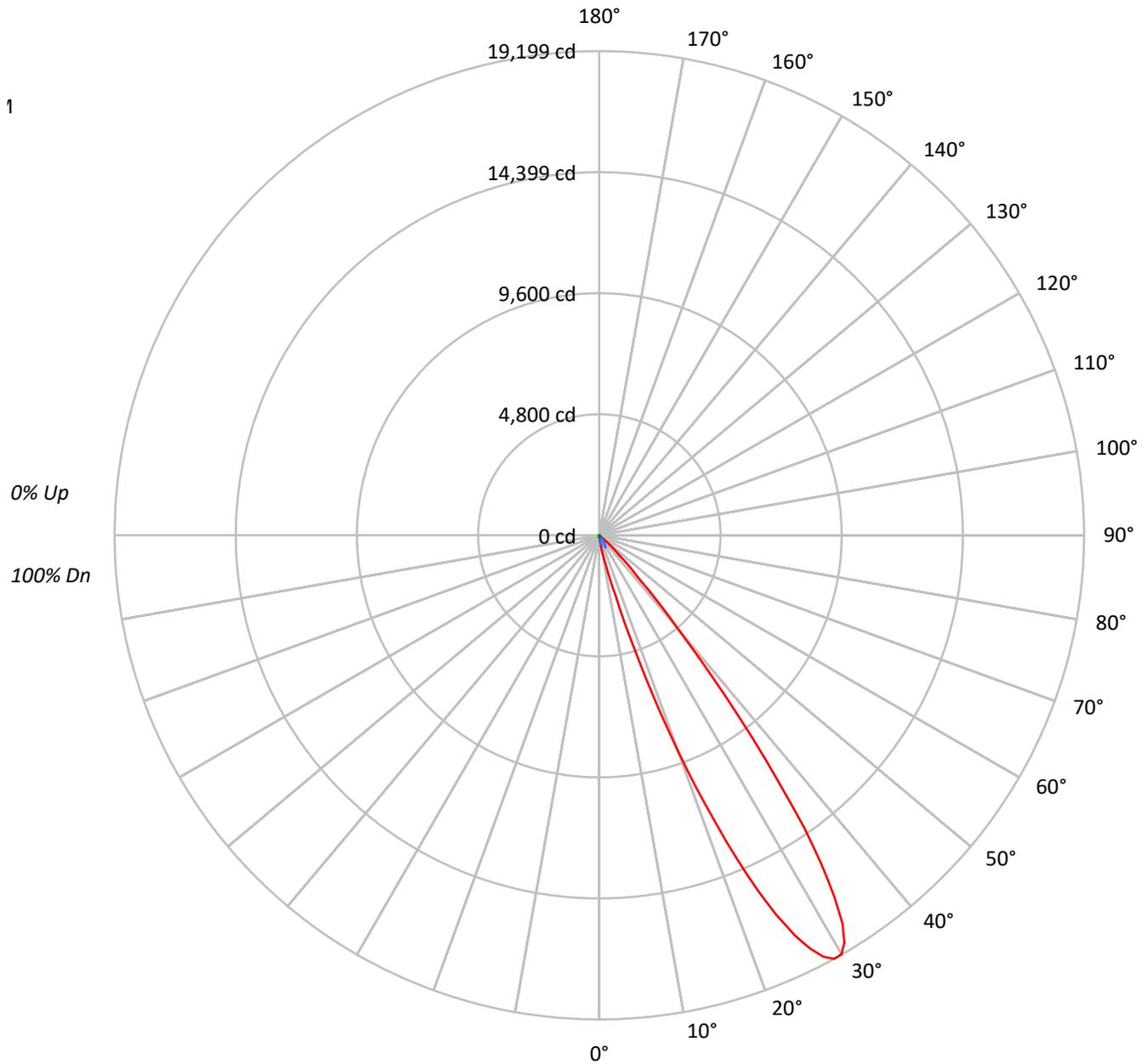
Test Method: LM-79-2019  
Report Number: P1310759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R159035D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2097.0 lumens  
Efficiency: N/A  
Efficacy: 72.8 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): 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

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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°	11952	11952	11952	11952	11952
5°	25742	19051	11289	5999	4944
10°	114161	36025	8919	2501	1784
15°	431713	83283	6187	1088	731
20°	1660293	117388	3739	367	367
25°	3157217	110082	1938	0	0
30°	3813983	88833	815	0	0
35°	2974631	60466	420	0	0
40°	1085502	29811	450	0	450
45°	278730	8939	487	0	999
50°	46995	1099	536	536	1634
55°	6125	0	1231	1832	3063
60°	689	689	2101	2824	4202
65°	815	815	3342	4157	4972
70°	1007	1007	4129	4129	5136
75°	1331	1331	5456	4059	5456
80°	0	1984	6050	4066	6050
85°	0	3952	12054	3952	3952

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 278730 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.5	0.5
10°-20°	160.7	7.7
20°-30°	891.2	42.5
30°-40°	861.0	41.1
40°-50°	149.8	7.1
50°-60°	10.7	0.5
60°-70°	6.3	0.3
70°-80°	5.1	0.2
80°-90°	2.6	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°	1061.4	50.6
0°-40°	1922.4	91.7
0°-60°	2082.9	99.3
0°-90°	2097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	69	69	69	69	69	
5°	149	110	65	35	29	29
15°	2421	467	35	6	4	1079
25°	16615	579	10	0	0	7429
35°	14148	288	2	0	0	8137
45°	1144	37	2	0	4	1229
55°	20	0	4	6	10	40
65°	2	2	8	10	12	2
75°	2	2	8	6	8	1
85°	0	2	6	2	2	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°	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
2.5°	102.0	97.9	100.0	100.0	100.0	100.0	100.0	95.9	95.9	97.9	87.7
5°	148.9	148.9	146.9	148.9	148.9	146.9	142.8	140.7	140.7	136.7	110.2
7.5°	297.8	293.7	293.7	289.7	269.3	263.1	259.1	248.9	230.5	226.4	142.8
10°	652.8	654.8	640.5	622.2	620.1	589.5	579.3	561.0	526.3	491.6	206.0
12.5°	1185.2	1158.6	1124.0	1126.0	1066.8	1046.4	999.5	948.5	895.5	840.4	338.6
15°	2421.3	2345.8	2390.7	2280.6	2156.1	2015.4	1872.6	1693.1	1540.1	1376.9	467.1
17.5°	5099.6	5173.1	5048.6	4577.4	4287.8	3947.1	3467.8	3004.7	2609.0	2290.8	571.2
20°	9059.0	9167.1	8744.9	8334.8	7631.1	6864.1	6064.5	5158.8	4291.9	3541.2	640.5
21°	10713.3	10648.0	10474.6	9817.8	9006.0	8116.6	7137.4	6137.9	5087.4	4112.3	646.6
22°	12312.6	12343.2	11939.3	11251.8	10407.3	9422.1	8226.7	6992.6	5860.5	4577.4	636.4
23°	13905.7	14003.6	13469.2	12824.6	11761.8	10650.1	9267.1	7935.0	6535.7	5109.8	616.0
24°	15380.5	15313.2	14952.1	14140.3	13004.1	11702.6	10266.6	8651.0	7090.5	5564.7	599.7
25°	16614.6	16606.4	16039.4	15249.9	13950.6	12508.4	10925.5	9236.5	7565.8	5872.7	579.3
26°	17624.3	17459.1	17012.4	16049.6	14766.5	13244.8	11466.0	9662.8	7833.0	6027.8	558.9
27°	18403.6	18285.2	17685.5	16684.0	15343.8	13660.9	11812.8	9874.9	7955.4	6078.8	532.4
28°	18927.8	18799.3	18160.8	17128.7	15662.0	13922.0	11996.4	9964.7	7955.4	6029.8	507.9
29°	19199.1	19023.7	18387.2	17281.6	15735.4	13952.6	11951.5	9877.0	7831.0	5878.9	479.4
30°	19178.7	18960.4	18293.4	17142.9	15517.2	13701.7	11700.6	9560.8	7549.5	5654.5	446.7
31°	18848.2	18603.5	17858.9	16673.8	15066.4	13228.5	11227.4	9136.5	7164.0	5362.8	414.1
32°	18177.1	17867.1	17140.9	15959.8	14372.8	12520.6	10539.9	8481.7	6586.7	4936.4	379.4
33°	17083.8	16771.7	15992.5	14884.8	13434.5	11623.1	9628.1	7778.0	5929.9	4428.5	350.9
34°	15715.0	15429.5	14758.3	13642.5	12251.4	10486.9	8579.6	6805.0	5248.5	3924.7	320.3
35°	14148.4	13693.5	13085.7	12202.4	10845.9	9071.2	7447.5	5899.3	4546.8	3396.4	287.6
36°	12029.0	12110.6	11466.0	10384.9	9260.9	7869.8	6311.3	4918.1	3802.3	2894.6	259.1
37°	10150.3	10021.8	9611.8	8775.5	7796.3	6415.3	5289.3	4169.5	3198.5	2447.8	228.5
38°	8188.0	8216.5	7814.7	7172.1	6201.2	5275.1	4257.2	3424.9	2676.3	2082.7	199.9
39°	6409.2	6386.8	6278.7	5683.0	4803.9	4196.0	3449.4	2839.5	2229.6	1756.3	169.3
40°	4828.3	4865.1	4612.1	4253.1	3741.1	3241.3	2747.7	2264.2	1844.0	1480.9	132.6
42.5°	2347.9	2405.0	2237.7	2145.9	1919.5	1723.7	1454.4	1187.2	1009.7	873.1	59.2
45°	1144.4	1111.7	1097.4	1052.6	999.5	893.5	791.5	679.3	593.6	512.0	36.7
47.5°	585.4	569.1	569.1	550.8	532.4	497.7	446.7	410.0	369.2	318.2	14.3
50°	175.4	173.4	171.3	173.4	167.3	173.4	177.5	179.5	163.2	161.1	4.1
52.5°	69.4	71.4	69.4	75.5	75.5	73.4	75.5	73.4	71.4	63.2	0.0
55°	20.4	20.4	20.4	20.4	20.4	20.4	22.4	24.5	22.4	24.5	0.0
57.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0
60°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0
62.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0



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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	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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):**

	67.5°	90°	112.5°	135°	157.5°	180°
0°	69.4	69.4	69.4	69.4	69.4	69.4
2.5°	81.6	71.4	59.2	49.0	44.9	42.8
5°	87.7	65.3	44.9	34.7	30.6	28.6
7.5°	93.8	59.2	34.7	24.5	18.4	16.3
10°	97.9	51.0	26.5	14.3	10.2	10.2
12.5°	97.9	40.8	18.4	8.2	6.1	6.1
15°	95.9	34.7	12.2	6.1	4.1	4.1
17.5°	93.8	26.5	8.2	4.1	2.0	4.1
20°	87.7	20.4	4.1	2.0	2.0	2.0
21°	85.7	18.4	4.1	2.0	2.0	2.0
22°	81.6	16.3	2.0	0.0	2.0	2.0
23°	77.5	12.2	2.0	0.0	0.0	0.0
24°	71.4	10.2	2.0	0.0	0.0	0.0
25°	67.3	10.2	2.0	0.0	0.0	0.0
26°	63.2	6.1	0.0	0.0	0.0	0.0
27°	57.1	4.1	0.0	0.0	0.0	0.0
28°	53.0	4.1	0.0	0.0	0.0	0.0
29°	46.9	4.1	0.0	0.0	0.0	0.0
30°	40.8	4.1	0.0	0.0	0.0	0.0
31°	32.6	2.0	0.0	0.0	0.0	0.0
32°	26.5	2.0	0.0	0.0	0.0	0.0
33°	18.4	2.0	0.0	0.0	0.0	0.0
34°	12.2	2.0	0.0	0.0	0.0	0.0
35°	10.2	2.0	0.0	0.0	0.0	0.0
36°	6.1	2.0	0.0	0.0	0.0	2.0
37°	6.1	2.0	0.0	0.0	0.0	2.0
38°	4.1	2.0	0.0	0.0	0.0	2.0
39°	2.0	2.0	0.0	0.0	0.0	2.0
40°	2.0	2.0	0.0	0.0	0.0	2.0
42.5°	0.0	2.0	0.0	0.0	2.0	4.1
45°	0.0	2.0	0.0	0.0	2.0	4.1
47.5°	0.0	2.0	0.0	0.0	4.1	4.1
50°	0.0	2.0	2.0	2.0	4.1	6.1
52.5°	0.0	4.1	2.0	4.1	6.1	8.2
55°	2.0	4.1	4.1	6.1	8.2	10.2
57.5°	2.0	6.1	6.1	8.2	10.2	10.2
60°	4.1	6.1	8.2	8.2	12.2	12.2
62.5°	4.1	8.2	8.2	8.2	12.2	12.2
65°	4.1	8.2	8.2	10.2	12.2	12.2
67.5°	4.1	8.2	8.2	8.2	10.2	12.2
70°	4.1	8.2	6.1	8.2	10.2	10.2
72.5°	4.1	8.2	6.1	6.1	8.2	10.2
75°	4.1	8.2	6.1	6.1	8.2	8.2
77.5°	4.1	6.1	6.1	4.1	6.1	6.1
80°	4.1	6.1	4.1	4.1	6.1	6.1



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**CANDELA DISTRIBUTION (continued):**

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	4.1	6.1	4.1	2.0	4.1	4.1
85°	4.1	6.1	4.1	2.0	2.0	2.0
87.5°	4.1	6.1	2.0	0.0	0.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)