

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: P1311968

Luminaire Tested: LDSQA3D24R459040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

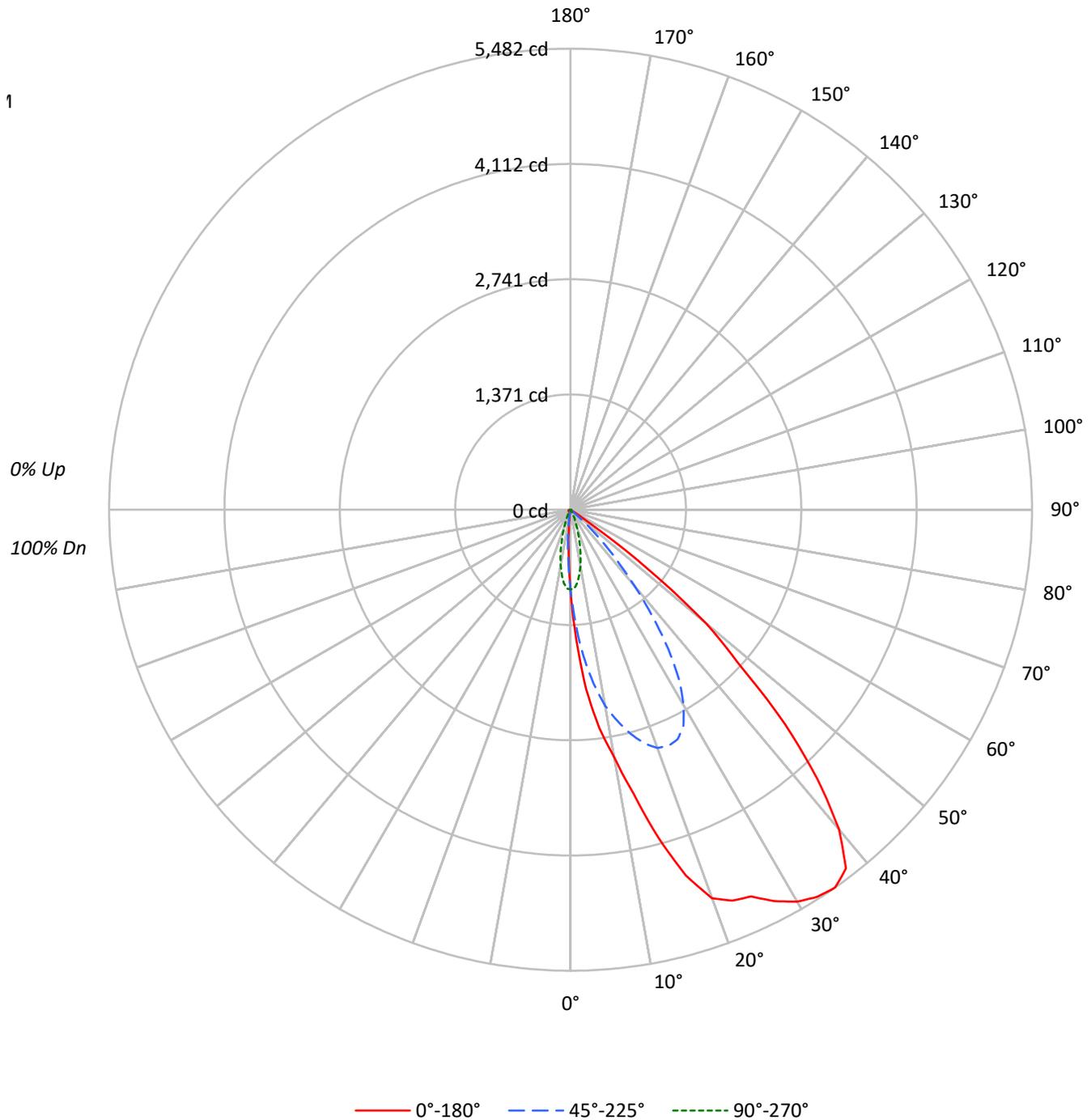
Test Method: LM-79-2019  
Report Number: P1311968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R459040D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2484.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
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





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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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	162785	162785	162785	162785	162785
5°	370984	300968	152273	61061	41664
10°	522785	413433	117711	13448	6173
15°	720413	491889	75188	4440	3709
20°	900817	552447	39221	3042	3042
25°	964005	571999	18167	2375	2755
30°	1069976	534173	8253	2486	2884
35°	1152605	425851	2628	2628	3490
40°	1115290	263872	1394	3260	4204
45°	875840	124459	1510	4043	5066
50°	562708	14468	2224	5010	6671
55°	85454	1261	2492	6245	8107
60°	1447	1447	2859	7164	8577
65°	1712	1712	3382	7621	10147
70°	2115	2115	4179	8359	11531
75°	1397	2795	5523	9649	12443
80°	2083	4166	6149	10315	14381
85°	0	4150	8299	12251	12251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 875840 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.4	4.2
10°-20°	374.0	15.1
20°-30°	657.1	26.5
30°-40°	746.1	30.0
40°-50°	483.1	19.4
50°-60°	94.8	3.8
60°-70°	11.5	0.5
70°-80°	9.6	0.4
80°-90°	4.4	0.2
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°	1134.5	45.7
0°-40°	1880.6	75.7
0°-60°	2458.6	99.0
0°-90°	2484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2484.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	945	945	945	945	945	
5°	2146	1741	881	353	241	228
15°	4040	2759	422	25	21	1164
25°	5073	3010	96	12	14	2378
35°	5482	2026	12	12	17	3370
45°	3596	511	6	17	21	2710
55°	285	4	8	21	27	543
65°	4	4	8	19	25	4
75°	2	4	8	14	19	2
85°	0	2	4	6	6	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2
2.5°	1535.2	1531.0	1537.3	1495.7	1493.6	1462.5	1454.2	1418.9	1371.1	1348.2	1294.2
5°	2145.9	2125.2	2125.2	2075.3	2058.7	2023.4	1963.1	1888.3	1826.0	1740.9	1649.4
7.5°	2617.5	2613.4	2613.4	2569.7	2528.2	2478.3	2397.3	2312.1	2212.4	2081.5	1948.6
10°	2989.4	2995.6	2976.9	2937.4	2877.2	2823.2	2727.6	2623.7	2501.2	2364.1	2187.5
12.5°	3458.9	3413.1	3398.6	3309.3	3232.4	3128.5	3014.3	2895.9	2744.2	2571.8	2372.4
15°	4040.5	3982.4	3924.2	3805.8	3677.0	3517.0	3338.4	3163.9	2968.6	2758.8	2509.5
17.5°	4559.9	4559.9	4483.0	4296.0	4129.8	3893.0	3652.0	3419.4	3188.8	2912.5	2600.9
20°	4915.1	4896.4	4838.2	4701.1	4512.1	4244.1	3930.4	3604.3	3325.9	3014.3	2652.8
22.5°	5031.4	5027.3	5029.4	4948.3	4796.7	4518.3	4134.0	3749.7	3400.7	3039.2	2627.9
25°	5073.0	5081.3	5102.1	5070.9	4956.6	4678.3	4258.6	3818.2	3423.5	3010.1	2532.3
27.5°	5245.4	5228.8	5251.6	5230.9	5102.1	4769.7	4283.6	3801.6	3373.7	2904.2	2362.0
30°	5380.4	5376.3	5415.8	5397.1	5228.8	4827.9	4260.7	3739.3	3251.1	2686.1	2094.0
32.5°	5457.3	5459.4	5469.8	5392.9	5143.6	4701.1	4148.5	3612.6	3020.5	2401.5	1745.0
35°	5482.2	5469.8	5411.6	5222.6	4881.9	4408.2	3872.3	3311.4	2706.8	2025.5	1379.4
37.5°	5374.2	5309.8	5160.2	4877.7	4483.0	4040.5	3519.1	2931.2	2276.8	1599.6	1028.3
40°	4960.8	4875.6	4686.6	4397.8	4030.1	3602.2	3068.3	2453.4	1765.8	1173.7	722.9
42.5°	4341.7	4298.1	4100.8	3849.4	3537.8	3105.7	2555.2	1932.0	1306.7	810.2	461.2
45°	3596.0	3539.9	3415.2	3192.9	2947.8	2494.9	1981.8	1383.5	891.2	511.0	228.5
47.5°	2696.5	2700.6	2615.4	2447.2	2206.2	1828.1	1356.5	928.6	558.8	263.8	51.9
50°	2100.2	2071.2	1950.7	1778.2	1497.8	1217.3	876.7	585.8	295.0	54.0	4.2
52.5°	1163.3	1182.0	1117.6	1061.5	916.1	727.1	517.3	297.1	62.3	6.2	4.2
55°	284.6	301.2	288.8	295.0	305.4	272.1	209.8	58.2	6.2	4.2	4.2
57.5°	6.2	6.2	6.2	6.2	10.4	14.5	14.5	4.2	4.2	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
70°	4.2	4.2	4.2	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
82.5°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	945.2	945.2	945.2	945.2	945.2	945.2	945.2	945.2
2.5°	1267.2	1227.7	1155.0	939.0	754.1	608.7	521.4	513.1
5°	1568.4	1462.5	1308.8	880.8	556.7	353.2	255.5	241.0
7.5°	1807.3	1657.8	1420.9	785.3	380.2	180.7	99.7	83.1
10°	2004.7	1792.8	1479.1	673.1	238.9	76.9	41.5	35.3
12.5°	2139.7	1884.2	1489.5	548.4	137.1	37.4	27.0	24.9
15°	2227.0	1913.3	1439.6	421.7	76.9	24.9	22.9	20.8
17.5°	2262.3	1888.3	1344.1	305.4	41.5	18.7	18.7	18.7
20°	2245.7	1807.3	1202.8	214.0	27.0	16.6	16.6	16.6
22.5°	2166.7	1668.1	1026.2	143.3	18.7	14.5	14.5	14.5
25°	2010.9	1479.1	839.3	95.6	12.5	12.5	14.5	14.5
27.5°	1778.2	1246.4	641.9	64.4	10.4	12.5	14.5	14.5
30°	1485.3	986.8	461.2	41.5	10.4	12.5	12.5	14.5
32.5°	1180.0	718.8	303.3	24.9	8.3	12.5	14.5	16.6
35°	855.9	490.3	193.2	12.5	10.4	12.5	14.5	16.6
37.5°	600.4	319.9	112.2	8.3	10.4	12.5	16.6	16.6
40°	390.5	178.7	41.5	6.2	10.4	14.5	16.6	18.7
42.5°	203.6	62.3	8.3	6.2	10.4	14.5	18.7	20.8
45°	51.9	8.3	2.1	6.2	12.5	16.6	20.8	20.8
47.5°	6.2	2.1	2.1	8.3	12.5	18.7	20.8	22.9
50°	2.1	4.2	4.2	8.3	12.5	18.7	22.9	24.9
52.5°	4.2	4.2	4.2	8.3	14.5	18.7	24.9	27.0
55°	4.2	4.2	4.2	8.3	14.5	20.8	24.9	27.0
57.5°	4.2	4.2	4.2	8.3	14.5	20.8	24.9	24.9
60°	4.2	4.2	4.2	8.3	14.5	20.8	24.9	24.9
62.5°	4.2	4.2	6.2	8.3	14.5	18.7	24.9	24.9
65°	4.2	6.2	6.2	8.3	14.5	18.7	22.9	24.9
67.5°	4.2	4.2	6.2	8.3	14.5	18.7	22.9	24.9
70°	4.2	4.2	6.2	8.3	12.5	16.6	20.8	22.9
72.5°	4.2	4.2	6.2	8.3	12.5	16.6	18.7	20.8
75°	4.2	4.2	6.2	8.3	10.4	14.5	18.7	18.7
77.5°	4.2	4.2	6.2	6.2	10.4	12.5	16.6	16.6
80°	4.2	4.2	6.2	6.2	8.3	10.4	12.5	14.5
82.5°	4.2	4.2	4.2	6.2	6.2	8.3	10.4	10.4
85°	4.2	4.2	4.2	4.2	4.2	6.2	6.2	6.2
87.5°	2.1	4.2	4.2	4.2	4.2	4.2	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)