

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: P1311986

Luminaire Tested: LDSQA3D24R559040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R559040D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

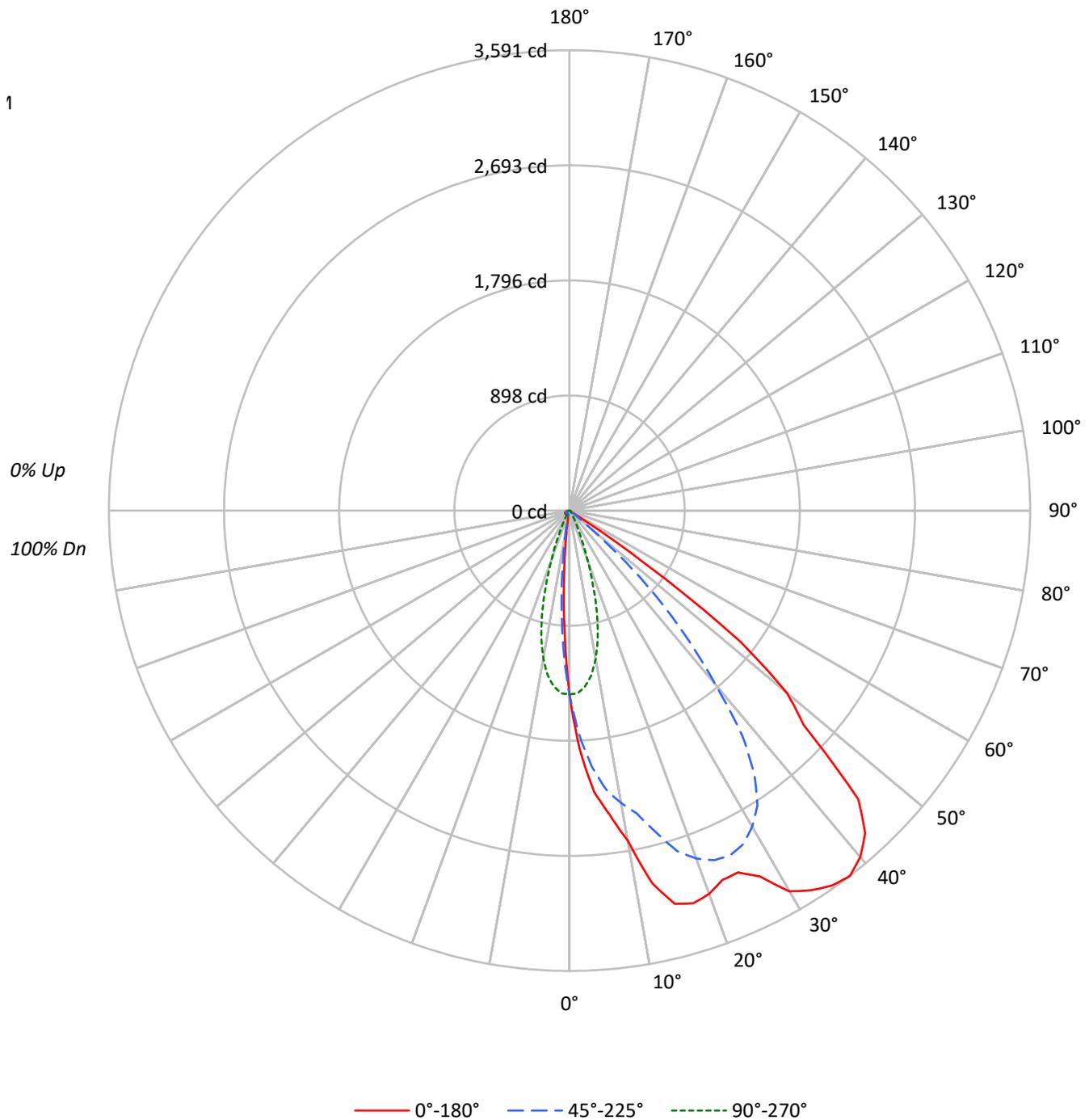
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2391.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	246812	246812	246812	246812	246812
5°	380596	346487	238420	122434	80424
10°	457292	404986	205221	30866	12346
15°	566203	462523	146650	8523	6668
20°	583164	529098	75748	5718	5718
25°	591610	563600	30385	5131	5929
30°	681910	566270	13225	5369	6205
35°	750617	527925	5677	5677	6980
40°	792853	397371	3260	6542	7464
45°	775469	242805	3044	7088	9109
50°	593199	51764	3349	8359	10583
55°	217629	1862	3753	9368	11860
60°	2136	2136	4306	10747	13606
65°	2527	2527	5094	11003	14385
70°	2115	3122	5237	12538	16718
75°	1397	2795	5523	13841	19364
80°	2083	4166	6149	14381	20629
85°	0	4150	8299	16401	20551

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 775469 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	5.3
10°-20°	361.3	15.1
20°-30°	554.2	23.2
30°-40°	645.8	27.0
40°-50°	516.1	21.6
50°-60°	152.8	6.4
60°-70°	16.4	0.7
70°-80°	12.8	0.5
80°-90°	5.5	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°	1041.7	43.6
0°-40°	1687.5	70.6
0°-60°	2356.4	98.6
0°-90°	2391.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2391.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1433	1433	1433	1433	1433	
5°	2202	2004	1379	708	465	219
15°	3176	2594	822	48	37	877
25°	3113	2966	160	27	31	1479
35°	3570	2511	27	27	33	2224
45°	3184	997	12	29	37	2296
55°	725	6	12	31	40	768
65°	6	6	12	27	35	5
75°	2	4	8	21	29	3
85°	0	2	4	8	10	1
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°	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1869.2	1869.2	1863.0	1865.1	1860.9	1838.1	1833.9	1804.9	1779.9	1752.9	1730.1
5°	2201.5	2205.7	2199.5	2187.0	2170.4	2153.8	2118.5	2091.5	2056.2	2004.2	1956.5
7.5°	2390.5	2386.4	2376.0	2371.9	2361.5	2342.8	2317.9	2288.8	2247.2	2195.3	2139.2
10°	2614.9	2579.5	2569.2	2552.5	2519.3	2481.9	2438.3	2398.9	2363.5	2315.8	2255.5
12.5°	2976.2	2970.0	2928.5	2897.3	2851.6	2768.6	2693.8	2606.5	2502.7	2419.6	2340.7
15°	3175.6	3179.8	3161.1	3136.2	3107.1	3038.6	2963.8	2862.0	2739.5	2594.1	2465.3
17.5°	3210.9	3217.2	3206.8	3196.4	3188.1	3148.6	3102.9	3030.2	2918.1	2783.1	2592.0
20°	3181.9	3194.3	3196.4	3208.9	3225.5	3208.9	3171.5	3121.6	3028.2	2886.9	2704.2
22.5°	3117.5	3140.3	3156.9	3200.6	3244.2	3244.2	3221.3	3181.9	3090.5	2951.3	2764.4
25°	3113.3	3117.5	3123.7	3194.3	3262.9	3277.4	3256.6	3215.1	3115.4	2965.9	2762.3
27.5°	3217.2	3190.2	3148.6	3219.2	3300.2	3312.7	3283.6	3227.6	3109.2	2932.6	2691.7
30°	3429.0	3368.8	3281.6	3333.5	3389.6	3375.0	3316.9	3227.6	3067.6	2847.5	2558.8
32.5°	3510.0	3476.8	3445.6	3501.7	3512.1	3451.9	3348.0	3215.1	3001.2	2727.0	2340.7
35°	3570.2	3572.3	3559.9	3570.2	3520.4	3435.2	3321.0	3146.6	2876.6	2511.0	2052.0
37.5°	3591.0	3595.2	3568.2	3530.8	3456.0	3358.4	3221.3	3021.9	2668.9	2214.0	1615.9
40°	3526.6	3514.2	3470.6	3418.6	3337.6	3237.9	3088.4	2791.4	2359.4	1767.5	1260.7
42.5°	3412.4	3391.6	3339.7	3277.4	3192.2	3065.6	2826.7	2467.4	1917.0	1379.1	882.7
45°	3183.9	3169.4	3105.0	3059.3	2957.6	2793.5	2486.1	2033.3	1482.9	996.9	510.9
47.5°	2473.6	2475.7	2525.5	2548.4	2513.1	2382.2	2020.9	1545.2	1082.1	594.0	172.4
50°	2214.0	2203.6	2153.8	2085.2	1971.0	1775.8	1482.9	1092.5	639.7	193.2	24.9
52.5°	1680.2	1680.2	1655.3	1620.0	1499.5	1310.5	1003.2	604.4	224.3	33.2	6.2
55°	724.8	687.5	708.2	747.7	716.5	623.1	469.4	180.7	39.5	6.2	6.2
57.5°	10.4	24.9	37.4	60.2	81.0	97.6	51.9	18.7	6.2	6.2	6.2
60°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
62.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
65°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
67.5°	4.2	4.2	4.2	6.2	4.2	6.2	6.2	6.2	6.2	6.2	6.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2	6.2
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
85°	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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°	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1696.9	1661.5	1603.4	1426.9	1244.1	1075.9	955.4	909.7
5°	1902.5	1838.1	1740.5	1379.1	1015.6	708.2	533.8	465.2
7.5°	2064.5	1981.4	1840.2	1296.0	745.6	378.0	226.4	178.6
10°	2172.5	2081.1	1896.2	1173.5	494.3	176.5	85.2	70.6
12.5°	2251.4	2137.2	1917.0	1015.6	290.8	81.0	45.7	41.5
15°	2309.5	2162.1	1892.1	822.5	159.9	47.8	37.4	37.4
17.5°	2390.5	2174.5	1831.9	606.5	91.4	35.3	35.3	35.3
20°	2452.9	2174.5	1717.6	413.3	56.1	31.2	31.2	31.2
22.5°	2484.0	2141.3	1578.5	261.7	39.5	29.1	31.2	31.2
25°	2452.9	2060.3	1399.9	159.9	31.2	27.0	29.1	31.2
27.5°	2338.6	1898.3	1161.0	101.8	24.9	27.0	29.1	31.2
30°	2147.5	1663.6	891.0	66.5	22.8	27.0	29.1	31.2
32.5°	1877.5	1314.7	577.4	43.6	20.8	27.0	29.1	31.2
35°	1466.3	930.5	348.9	27.0	20.8	27.0	31.2	33.2
37.5°	1098.7	621.0	189.0	16.6	20.8	27.0	31.2	33.2
40°	762.2	361.4	81.0	14.5	20.8	29.1	33.2	33.2
42.5°	442.4	143.3	20.8	12.5	20.8	29.1	33.2	35.3
45°	162.0	29.1	6.2	12.5	22.8	29.1	33.2	37.4
47.5°	22.8	6.2	6.2	12.5	22.8	29.1	35.3	37.4
50°	6.2	6.2	6.2	12.5	22.8	31.2	37.4	39.5
52.5°	6.2	6.2	6.2	12.5	22.8	31.2	37.4	39.5
55°	6.2	6.2	6.2	12.5	22.8	31.2	37.4	39.5
57.5°	6.2	6.2	6.2	12.5	22.8	31.2	37.4	39.5
60°	6.2	6.2	6.2	12.5	20.8	31.2	37.4	39.5
62.5°	6.2	6.2	6.2	12.5	20.8	29.1	35.3	37.4
65°	6.2	6.2	6.2	12.5	18.7	27.0	35.3	35.3
67.5°	6.2	6.2	6.2	10.4	18.7	27.0	33.2	35.3
70°	6.2	6.2	6.2	10.4	16.6	24.9	31.2	33.2
72.5°	6.2	6.2	6.2	8.3	14.5	22.8	29.1	31.2
75°	4.2	6.2	6.2	8.3	14.5	20.8	27.0	29.1
77.5°	4.2	6.2	6.2	6.2	12.5	16.6	22.8	24.9
80°	4.2	4.2	6.2	6.2	10.4	14.5	18.7	20.8
82.5°	4.2	4.2	4.2	6.2	8.3	10.4	14.5	14.5
85°	4.2	4.2	4.2	4.2	6.2	8.3	10.4	10.4
87.5°	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)