

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: P1312002

Luminaire Tested: LDSQA3D24R659040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R659040D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

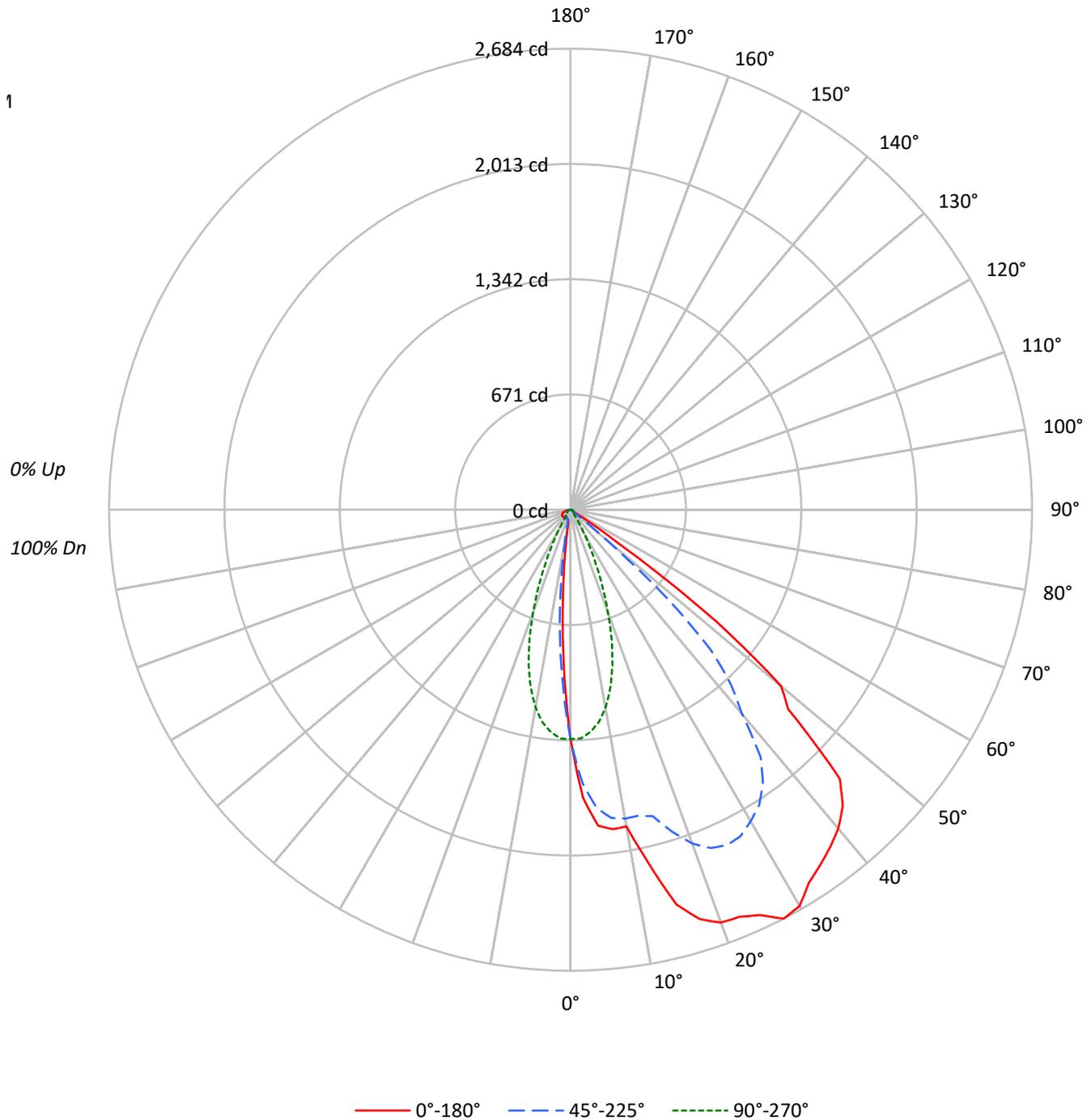
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1999.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 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 (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





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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	100		
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90	
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48	
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36	

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

	0°	45°	90°	135°	180°
0°	229693	229693	229693	229693	229693
5°	319276	301313	224814	123540	86907
10°	327322	319330	204539	34504	12714
15°	424100	329281	167422	11108	10734
20°	468672	378830	116508	9897	10282
25°	494620	409355	65920	9482	10261
30°	529619	416425	29750	9506	10739
35°	531541	410104	9608	10050	11795
40°	544561	348405	6542	10746	13085
45°	539363	280800	6576	11642	14175
50°	428020	66233	6671	12807	16129
55°	101668	3753	6876	14352	18076
60°	3582	4306	7888	15018	19323
65°	4238	4238	7621	16097	21150
70°	3122	4179	7301	15711	21955
75°	2795	4126	6920	16569	22092
80°	2083	4166	8232	16464	22712
85°	4150	8299	8299	16401	20551

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 540361 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.3	5.6
10°-20°	293.1	14.7
20°-30°	460.4	23.0
30°-40°	526.7	26.3
40°-50°	423.4	21.2
50°-60°	137.7	6.9
60°-70°	24.5	1.2
70°-80°	16.1	0.8
80°-90°	5.8	0.3
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°	864.8	43.3
0°-40°	1391.5	69.6
0°-60°	1952.6	97.7
0°-90°	1999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1334	1334	1334	1334	1334	
5°	1847	1743	1300	715	503	174
15°	2379	1847	939	62	60	663
25°	2603	2154	347	50	54	1213
35°	2528	1951	46	48	56	1588
45°	2214	1153	27	48	58	1593
55°	339	12	23	48	60	484
65°	10	10	19	40	52	9
75°	4	6	10	25	33	5
85°	2	4	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°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1678.5	1672.3	1680.6	1666.0	1664.0	1649.4	1641.1	1637.0	1618.3	1593.3	1570.5
5°	1846.8	1821.9	1828.1	1826.0	1815.6	1809.4	1801.1	1790.7	1765.8	1742.9	1713.8
7.5°	1875.9	1855.1	1859.2	1861.3	1855.1	1853.0	1850.9	1846.8	1830.2	1809.4	1784.5
10°	1871.7	1850.9	1848.9	1842.6	1836.4	1838.5	1838.5	1838.5	1834.3	1826.0	1817.7
12.5°	2112.7	2083.6	2077.4	2033.7	1994.3	1925.7	1882.1	1840.5	1821.9	1823.9	1817.7
15°	2378.6	2376.5	2355.7	2314.2	2247.7	2185.4	2085.7	2010.9	1915.3	1846.8	1817.7
17.5°	2499.1	2497.0	2478.3	2443.0	2395.2	2337.0	2264.3	2177.1	2071.1	1965.2	1877.9
20°	2557.2	2571.8	2551.0	2521.9	2476.2	2422.2	2353.7	2274.7	2175.0	2067.0	1963.1
22.5°	2565.5	2584.2	2565.5	2544.8	2511.5	2476.2	2418.1	2337.0	2235.2	2131.4	2029.6
25°	2602.9	2609.2	2569.7	2542.7	2511.5	2486.6	2440.9	2370.3	2266.4	2154.2	2054.5
27.5°	2684.0	2657.0	2573.9	2536.5	2507.4	2484.5	2440.9	2368.2	2256.0	2141.8	2037.9
30°	2663.2	2652.8	2580.1	2544.8	2519.8	2497.0	2443.0	2349.5	2214.5	2094.0	1986.0
32.5°	2578.0	2598.8	2573.9	2561.4	2548.9	2519.8	2440.9	2314.2	2162.5	2040.0	1894.6
35°	2528.2	2553.1	2555.2	2555.2	2540.6	2497.0	2403.5	2262.3	2110.6	1950.6	1755.4
37.5°	2478.3	2499.1	2511.5	2519.8	2499.1	2436.8	2318.3	2191.6	2025.4	1815.6	1472.9
40°	2422.2	2436.8	2447.1	2451.3	2420.1	2339.1	2231.1	2087.8	1900.8	1549.7	1315.0
42.5°	2343.3	2351.6	2349.5	2347.4	2314.2	2224.9	2123.1	1973.5	1603.7	1381.4	1096.8
45°	2214.5	2206.2	2218.6	2218.6	2175.0	2108.5	1973.5	1682.7	1435.5	1152.9	706.3
47.5°	1715.9	1722.1	1782.4	1880.0	1940.3	1921.6	1738.8	1472.9	1207.0	756.2	234.7
50°	1597.5	1591.3	1593.3	1603.7	1610.0	1558.0	1427.2	1244.3	797.7	247.2	16.6
52.5°	1071.9	1078.2	1125.9	1236.0	1271.3	1234.0	1109.3	830.9	290.8	16.6	14.5
55°	338.6	361.5	388.5	446.6	548.4	612.8	600.4	295.0	18.7	12.5	14.5
57.5°	12.5	12.5	16.6	29.1	56.1	91.4	95.6	18.7	14.5	14.5	14.5
60°	10.4	10.4	10.4	10.4	10.4	10.4	12.5	12.5	12.5	12.5	12.5
62.5°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	12.5	12.5	12.5	12.5
65°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	12.5
67.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.4	10.4	10.4	10.4
70°	6.2	6.2	6.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.4
72.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3	8.3	8.3
75°	4.2	4.2	4.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2	6.2	6.2
80°	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	2.1	2.1	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°	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1558.0	1533.1	1483.2	1333.7	1177.9	1022.1	924.4	899.5
5°	1680.6	1651.5	1580.9	1300.4	984.7	714.6	560.9	502.7
7.5°	1755.4	1720.1	1637.0	1248.5	766.5	415.5	249.3	199.4
10°	1788.6	1757.5	1664.0	1169.6	554.7	197.3	87.2	72.7
12.5°	1803.2	1778.2	1674.4	1065.7	361.5	87.2	64.4	62.3
15°	1809.4	1782.4	1670.2	939.0	205.7	62.3	60.2	60.2
17.5°	1815.6	1784.5	1645.3	793.6	114.3	58.2	56.1	58.2
20°	1865.5	1776.1	1601.7	635.7	74.8	54.0	54.0	56.1
22.5°	1915.3	1774.1	1524.8	486.1	58.2	51.9	54.0	54.0
25°	1932.0	1753.3	1427.2	346.9	49.9	49.9	51.9	54.0
27.5°	1900.8	1693.1	1296.3	234.7	43.6	49.9	51.9	54.0
30°	1828.1	1591.3	1138.4	149.6	41.5	47.8	51.9	54.0
32.5°	1693.1	1389.8	961.8	89.3	39.5	47.8	54.0	54.0
35°	1423.0	1165.4	762.4	45.7	39.5	47.8	54.0	56.1
37.5°	1244.3	972.2	531.8	31.2	39.5	47.8	54.0	56.1
40°	1032.5	702.2	222.3	29.1	39.5	47.8	54.0	58.2
42.5°	714.6	305.4	35.3	27.0	37.4	47.8	56.1	58.2
45°	257.6	39.5	16.6	27.0	37.4	47.8	56.1	58.2
47.5°	22.9	14.5	16.6	27.0	37.4	47.8	56.1	60.2
50°	14.5	14.5	14.5	24.9	37.4	47.8	56.1	60.2
52.5°	14.5	14.5	14.5	24.9	35.3	47.8	58.2	60.2
55°	14.5	14.5	14.5	22.9	35.3	47.8	56.1	60.2
57.5°	14.5	14.5	16.6	22.9	35.3	45.7	56.1	58.2
60°	14.5	14.5	14.5	22.9	33.2	43.6	54.0	56.1
62.5°	12.5	14.5	14.5	20.8	31.2	41.5	51.9	54.0
65°	12.5	12.5	14.5	18.7	29.1	39.5	47.8	51.9
67.5°	10.4	12.5	12.5	16.6	24.9	35.3	43.6	47.8
70°	10.4	10.4	10.4	14.5	22.9	31.2	41.5	43.6
72.5°	8.3	10.4	10.4	12.5	18.7	27.0	35.3	39.5
75°	8.3	8.3	8.3	10.4	16.6	24.9	31.2	33.2
77.5°	6.2	6.2	8.3	8.3	14.5	18.7	27.0	29.1
80°	6.2	6.2	6.2	8.3	10.4	16.6	20.8	22.9
82.5°	4.2	4.2	4.2	6.2	8.3	10.4	14.5	16.6
85°	4.2	4.2	4.2	4.2	6.2	8.3	10.4	10.4
87.5°	2.1	2.1	2.1	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)