

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: P1313052

Luminaire Tested: LDSQA3D24R509050D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R509050D010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

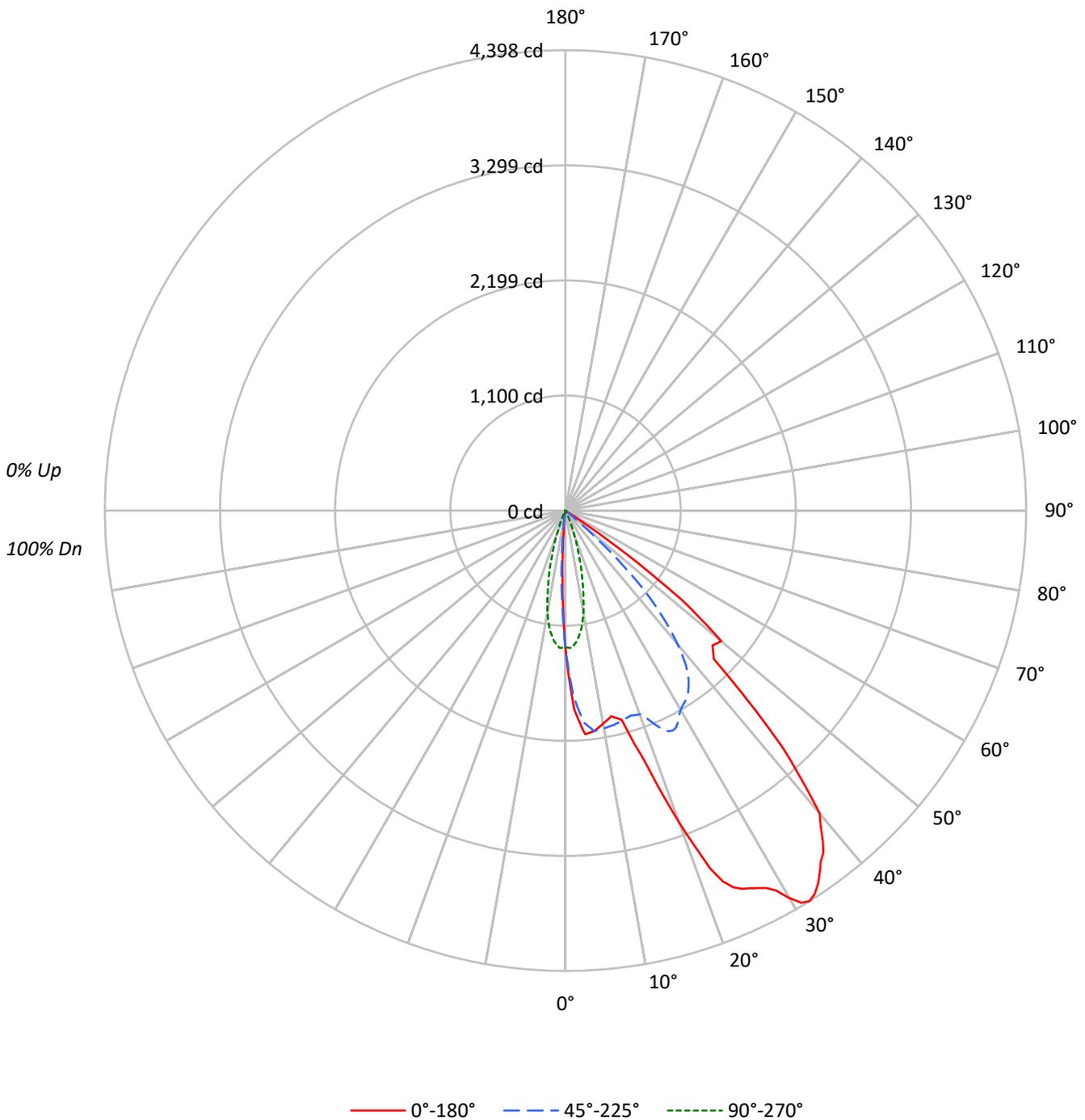
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2105.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
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

TEST NUMBER: P1313052  
CATALOG NUMBER: LDSQA3D24R509050D010 3LSQCA30R 1MB

### 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	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	225095	225095	225095	225095	225095
5°	370863	351950	216308	64242	32121
10°	361441	369380	173323	3253	4337
15°	368506	370717	103805	3316	1105
20°	580855	379545	42758	0	0
25°	757237	442173	10204	0	0
30°	849932	437286	418	0	0
35°	889463	430624	0	0	0
40°	848541	374147	0	0	0
45°	487290	246921	0	0	0
50°	520000	28213	0	0	0
55°	148179	0	0	0	0
60°	0	0	723	0	0
65°	0	856	856	0	0
70°	0	1057	1057	0	0
75°	0	1397	1397	0	0
80°	0	2083	4066	2083	0
85°	0	4150	8102	4150	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 538072 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	5.2
10°-20°	276.5	13.1
20°-30°	531.2	25.2
30°-40°	618.3	29.4
40°-50°	442.5	21.0
50°-60°	123.2	5.9
60°-70°	0.8	0.0
70°-80°	1.3	0.1
80°-90°	1.5	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°	917.5	43.6
0°-40°	1535.8	73.0
0°-60°	2101.4	99.8
0°-90°	2105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1307	1307	1307	1307	1307	
5°	2145	2036	1251	372	186	197
15°	2067	2079	582	19	6	667
25°	3985	2327	54	0	0	1813
35°	4231	2048	0	0	0	2618
45°	2001	1014	0	0	0	1882
55°	494	0	0	0	0	621
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	4	2	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	1307.0	1307.0	1307.0	1307.0	1307.0	1307.0	1307.0	1307.0	1307.0	1307.0	1307.0
2.5°	1899.5	1909.8	1911.9	1887.1	1891.3	1856.2	1858.2	1833.5	1773.6	1565.0	1313.2
5°	2145.2	2139.0	2145.2	2137.0	2145.2	2124.6	2112.2	2101.9	2035.8	1740.5	1251.2
7.5°	2122.5	2114.3	2126.6	2130.8	2145.2	2139.0	2141.1	2147.3	2124.6	1835.5	1145.9
10°	2066.8	2064.7	2070.9	2070.9	2087.4	2089.5	2097.7	2110.1	2112.2	1868.6	991.1
12.5°	2013.1	2006.9	2006.9	2004.8	2013.1	2011.0	2031.7	2060.6	2099.8	1847.9	778.4
15°	2066.8	2060.6	2052.3	2029.6	2013.1	1994.5	1996.6	2015.1	2079.2	1794.2	582.2
17.5°	2500.4	2467.3	2426.0	2353.8	2277.4	2145.2	2066.8	2017.2	2054.4	1711.6	388.2
20°	3169.3	3154.9	3088.8	2971.1	2847.2	2653.1	2411.6	2217.5	2070.9	1608.4	233.3
21°	3423.3	3415.0	3344.8	3235.4	3095.0	2859.6	2611.8	2378.5	2103.9	1565.0	183.8
22°	3683.4	3652.5	3596.7	3474.9	3328.3	3092.9	2816.3	2558.2	2170.0	1509.3	140.4
23°	3850.7	3832.1	3772.2	3675.2	3534.8	3305.6	3022.7	2741.9	2234.0	1447.4	105.3
24°	3937.4	3931.2	3883.7	3815.6	3695.8	3462.5	3194.1	2905.0	2287.7	1375.1	76.4
25°	3984.9	3964.2	3935.3	3885.8	3794.9	3592.6	3353.1	3047.5	2326.9	1302.8	53.7
26°	4013.8	4001.4	3956.0	3912.6	3825.9	3660.7	3456.3	3134.2	2337.2	1214.0	37.2
27°	4046.8	4017.9	3974.6	3922.9	3825.9	3681.4	3495.5	3171.4	2324.9	1123.2	24.8
28°	4081.9	4061.3	4001.4	3935.3	3819.7	3681.4	3481.1	3121.8	2287.7	1036.5	14.5
29°	4150.1	4123.2	4048.9	3951.8	3821.8	3677.2	3425.3	3018.6	2238.1	939.4	8.3
30°	4273.9	4218.2	4127.3	3991.1	3836.2	3669.0	3332.4	2863.7	2198.9	830.0	2.1
31°	4371.0	4340.0	4234.7	4063.3	3877.5	3646.3	3223.0	2711.0	2172.1	735.0	0.0
32°	4397.8	4375.1	4298.7	4137.7	3947.7	3627.7	3099.1	2562.3	2151.4	629.7	0.0
33°	4366.8	4352.4	4271.9	4125.3	3966.3	3602.9	2956.7	2415.7	2128.7	534.8	0.0
34°	4309.0	4290.5	4220.3	4071.6	3918.8	3495.5	2820.4	2304.2	2095.7	446.0	0.0
35°	4230.6	4216.1	4143.9	3997.3	3832.1	3328.3	2684.1	2229.9	2048.2	357.2	0.0
36°	4145.9	4141.8	4048.9	3904.4	3720.6	3167.3	2518.9	2174.1	2000.7	282.9	0.0
37°	4090.2	4069.5	3968.4	3825.9	3588.5	2979.4	2386.8	2155.5	1934.6	218.9	0.0
38°	3989.0	3993.1	3877.5	3747.4	3454.2	2816.3	2279.4	2141.1	1860.3	159.0	0.0
39°	3869.3	3871.3	3751.6	3640.1	3295.3	2644.9	2190.6	2126.6	1767.4	101.2	0.0
40°	3774.3	3772.2	3635.9	3516.2	3123.9	2483.8	2143.2	2106.0	1664.2	57.8	0.0
42.5°	3068.1	3080.5	3097.1	3146.6	2721.3	2201.0	2097.7	1990.4	1371.0	0.0	0.0
45°	2000.7	2048.2	2060.6	2209.2	2207.2	2085.3	1990.4	1783.9	1013.8	0.0	0.0
47.5°	1903.7	1918.1	1944.9	2002.8	2033.7	1973.9	1779.8	1490.7	553.3	0.0	0.0
50°	1940.8	1938.8	1944.9	1944.9	1889.2	1734.4	1459.7	1100.5	105.3	0.0	0.0
52.5°	1393.7	1445.3	1501.0	1525.8	1453.6	1290.4	1065.4	646.3	0.0	0.0	0.0
55°	493.5	476.9	464.6	507.9	497.6	559.5	462.5	150.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	2.1	8.3	18.6	24.8	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	4.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	4.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	4.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	4.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1	4.1
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):**

	112.5°	135°	157.5°	180°
0°	1307.0	1307.0	1307.0	1307.0
2.5°	1046.8	803.2	650.4	660.7
5°	735.0	371.6	229.2	185.8
7.5°	439.8	113.6	22.7	18.6
10°	206.5	18.6	20.6	24.8
12.5°	61.9	16.5	22.7	20.6
15°	16.5	18.6	10.3	6.2
17.5°	6.2	8.3	0.0	0.0
20°	4.1	0.0	0.0	0.0
21°	4.1	0.0	0.0	0.0
22°	2.1	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	2.1	0.0	0.0	0.0
67.5°	2.1	0.0	0.0	0.0
70°	2.1	0.0	0.0	0.0
72.5°	2.1	0.0	0.0	0.0
75°	2.1	0.0	0.0	0.0
77.5°	2.1	0.0	0.0	0.0
80°	2.1	2.1	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	2.1	2.1	0.0	0.0
85°	2.1	2.1	0.0	0.0
87.5°	2.1	2.1	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)