

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: METALUX

Report Number: P1588868

Luminaire Tested: 24CZSP-A-75-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-75-L945-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7500 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

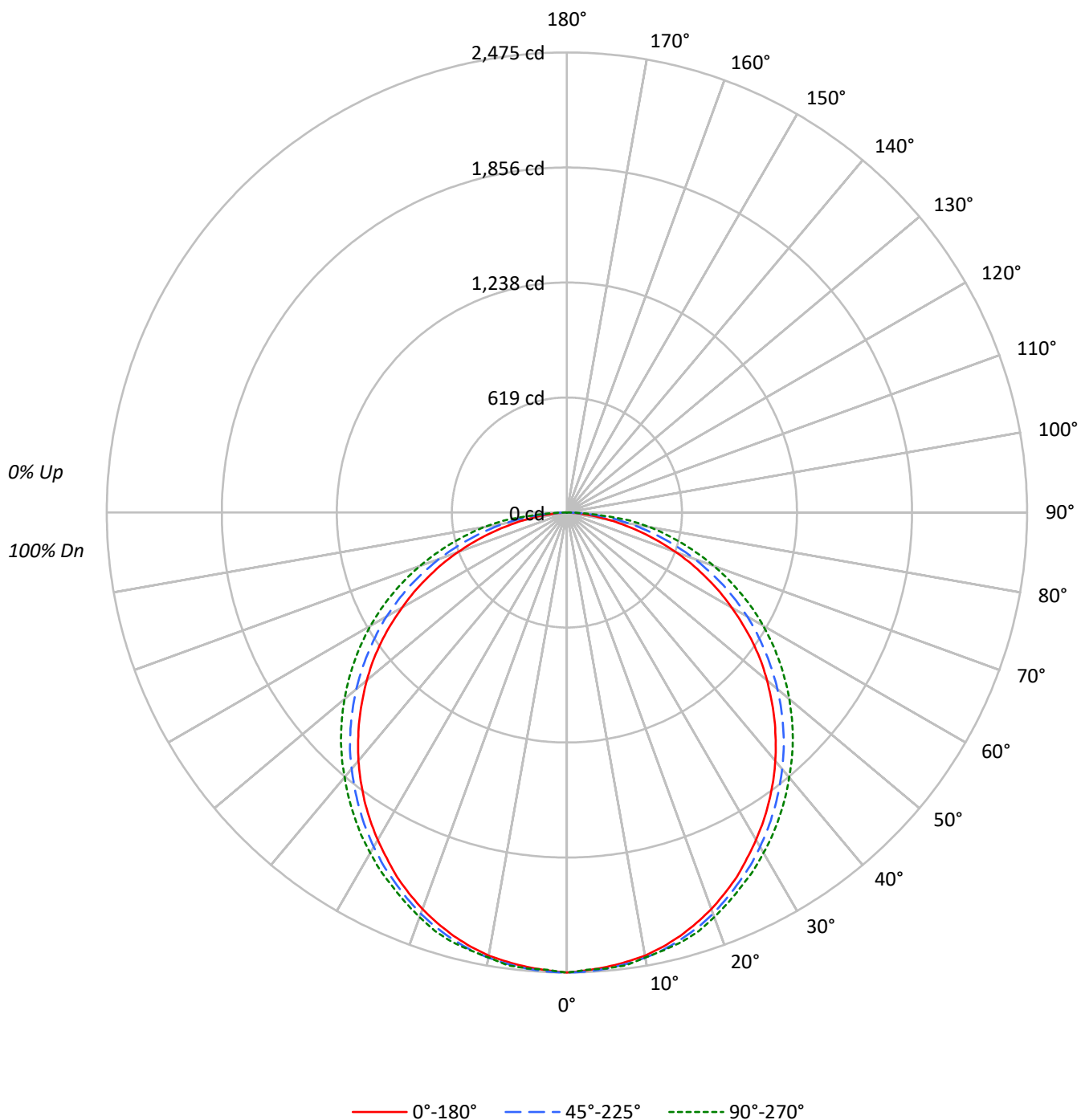
Lumens per Lamp: N/A
Luminaire Lumens: 7226.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3791	3791	3791
5°	3774	3788	3786
10°	3766	3783	3780
15°	3739	3769	3791
20°	3701	3745	3776
25°	3655	3706	3751
30°	3598	3673	3741
35°	3546	3638	3730
40°	3487	3601	3719
45°	3421	3565	3723
50°	3347	3521	3721
55°	3260	3472	3726
60°	3138	3434	3735
65°	2994	3368	3747
70°	2790	3274	3763
75°	2487	3144	3800
80°	2056	2993	3986
85°	1337	2703	3483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	3.2
10°-20°	670.3	9.3
20°-30°	1010.9	14.0
30°-40°	1217.6	16.8
40°-50°	1271.6	17.6
50°-60°	1167.8	16.2
60°-70°	919.8	12.7
70°-80°	564.3	7.8
80°-90°	169.8	2.3
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°	1915.2	26.5
0°-40°	3132.8	43.4
0°-60°	5572.1	77.1
0°-90°	7226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2475	2475	2475	2475	2475	
5°	2454	2458	2464	2472	2462	233
15°	2358	2362	2377	2391	2391	665
25°	2163	2168	2193	2220	2220	996
35°	1896	1906	1946	1985	1995	1186
45°	1579	1597	1646	1703	1719	1218
55°	1221	1243	1300	1373	1395	1090
65°	826	855	929	1007	1034	817
75°	420	454	531	615	642	446
85°	76	105	154	195	198	99
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2475.1	2475.1	2475.1	2475.1	2475.1
2.5°	2465.6	2470.3	2471.9	2473.5	2462.4
5°	2454.5	2457.7	2464.0	2471.9	2462.4
7.5°	2438.6	2441.8	2449.7	2460.8	2456.1
10°	2421.2	2422.8	2432.3	2440.2	2430.7
12.5°	2392.6	2397.4	2408.5	2414.8	2411.7
15°	2357.8	2362.5	2376.8	2391.1	2391.1
17.5°	2316.5	2322.9	2340.3	2359.4	2360.9
20°	2270.6	2275.3	2297.5	2316.5	2316.5
22.5°	2218.2	2224.6	2246.8	2267.4	2270.6
25°	2162.7	2167.5	2192.9	2219.8	2219.8
27.5°	2097.7	2107.2	2139.0	2165.9	2172.3
30°	2034.3	2042.2	2077.1	2110.4	2115.2
32.5°	1967.7	1977.2	2013.7	2050.2	2058.1
35°	1896.4	1905.9	1945.5	1985.2	1994.7
37.5°	1821.8	1832.9	1874.2	1920.1	1929.7
40°	1744.1	1756.8	1801.2	1850.4	1859.9
42.5°	1661.7	1679.1	1726.7	1777.4	1791.7
45°	1579.2	1596.7	1645.8	1702.9	1718.8
47.5°	1492.0	1512.6	1563.4	1623.6	1641.1
50°	1404.8	1425.4	1477.8	1542.8	1561.8
52.5°	1316.0	1336.6	1390.6	1458.7	1479.4
55°	1220.9	1243.1	1300.2	1373.1	1395.3
57.5°	1122.6	1151.1	1211.4	1285.9	1308.1
60°	1024.3	1052.8	1121.0	1193.9	1219.3
62.5°	927.6	954.5	1024.3	1102.0	1128.9
65°	826.1	854.6	929.2	1006.8	1033.8
67.5°	726.2	754.7	829.3	910.1	938.7
70°	623.1	654.8	731.0	811.8	840.4
72.5°	520.1	553.4	631.1	713.5	740.5
75°	420.2	453.5	531.2	615.2	642.2
77.5°	321.9	358.3	434.5	520.1	545.4
80°	233.1	268.0	339.3	423.4	451.9
82.5°	149.0	179.2	250.5	329.8	350.4
85°	76.1	104.6	153.8	195.0	198.2
87.5°	23.8	33.3	50.7	76.1	77.7
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.11	17.77	16.47	18.08	18.40	16.94	18.60	17.30	18.91	19.23
	3H	17.86	19.37	18.24	19.70	20.06	19.05	20.56	19.43	20.89	21.25
	4H	18.48	19.90	18.88	20.25	20.63	19.94	21.37	20.34	21.71	22.09
	6H	18.89	20.21	19.30	20.58	20.97	20.72	22.05	21.14	22.41	22.80
	8H	19.00	20.26	19.42	20.65	21.05	21.04	22.31	21.47	22.70	23.09
	12H	19.05	20.26	19.48	20.64	21.07	21.26	22.47	21.68	22.85	23.28
4H	2H	16.88	18.30	17.28	18.65	19.02	17.53	18.95	17.92	19.30	19.67
	3H	18.86	20.05	19.27	20.45	20.85	19.88	21.08	20.29	21.48	21.88
	4H	19.59	20.68	20.02	21.09	21.53	20.93	22.02	21.36	22.43	22.87
	6H	20.12	21.07	20.58	21.51	21.97	21.89	22.84	22.34	23.28	23.73
	8H	20.27	21.16	20.73	21.60	22.07	22.28	23.17	22.74	23.62	24.08
	12H	20.35	21.16	20.83	21.63	22.10	22.56	23.36	23.04	23.84	24.31
8H	4H	20.05	20.94	20.51	21.39	21.85	21.22	22.11	21.68	22.56	23.02
	6H	20.71	21.46	21.21	21.94	22.42	22.33	23.08	22.83	23.56	24.04
	8H	20.93	21.59	21.43	22.10	22.58	22.85	23.51	23.35	24.02	24.50
	12H	21.06	21.66	21.57	22.15	22.70	23.23	23.82	23.74	24.31	24.87
12H	4H	20.14	20.95	20.62	21.42	21.89	21.25	22.05	21.73	22.52	22.99
	6H	20.85	21.52	21.35	22.02	22.51	22.38	23.05	22.89	23.56	24.04
	8H	21.12	21.72	21.63	22.21	22.76	22.96	23.55	23.46	24.04	24.60