

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: P1588910

Luminaire Tested: 24CZSP-A-80-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588910
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-80-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

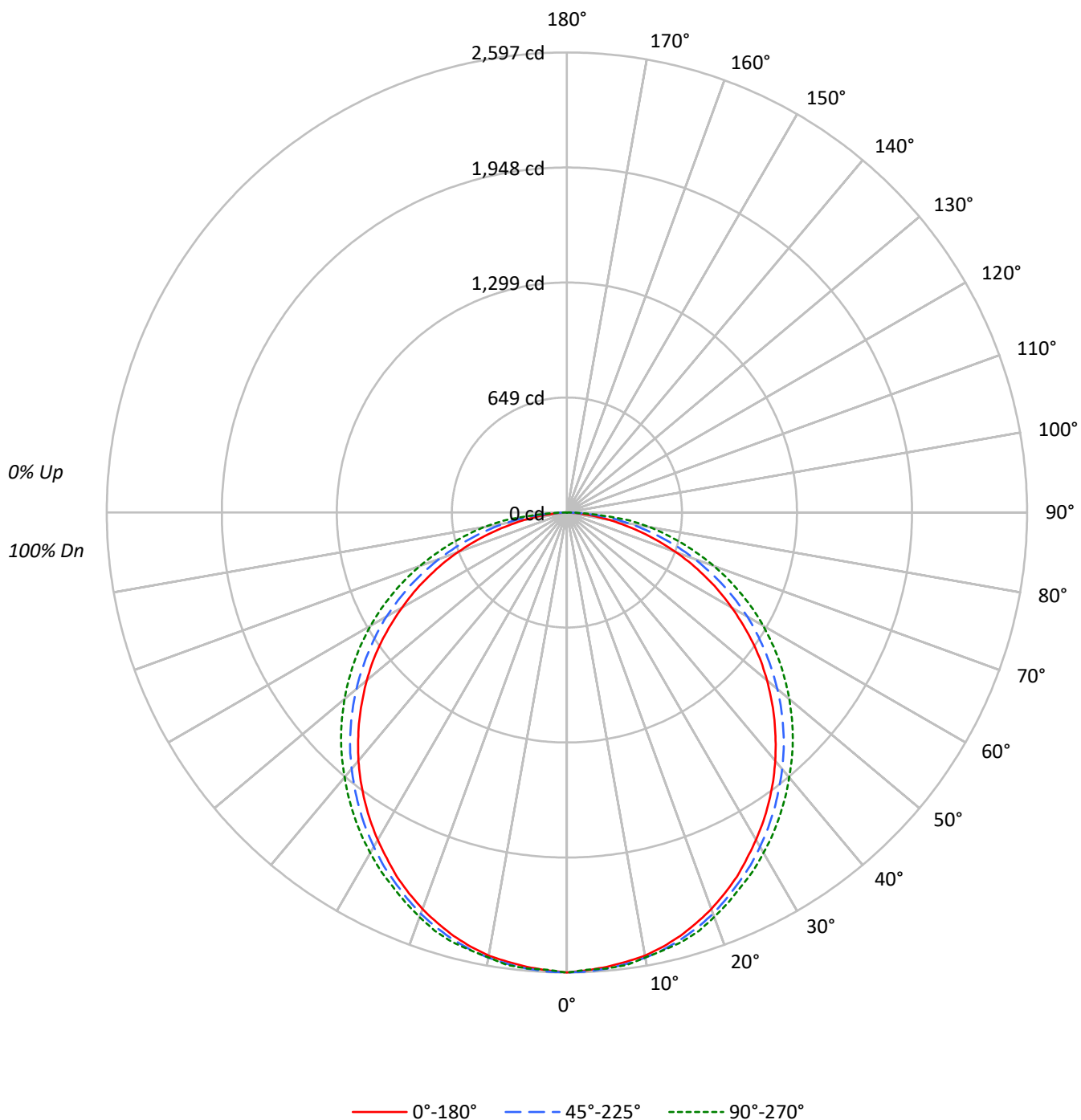
Lumens per Lamp: N/A
Luminaire Lumens: 7581.0 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3977	3977	3977
5°	3959	3975	3972
10°	3950	3969	3966
15°	3922	3954	3978
20°	3883	3929	3961
25°	3835	3888	3936
30°	3774	3854	3925
35°	3720	3816	3913
40°	3658	3778	3901
45°	3589	3740	3906
50°	3512	3694	3904
55°	3420	3643	3909
60°	3292	3603	3919
65°	3141	3533	3931
70°	2927	3434	3948
75°	2609	3298	3987
80°	2157	3140	4182
85°	1402	2836	3654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4314 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	3.2
10°-20°	703.2	9.3
20°-30°	1060.5	14.0
30°-40°	1277.4	16.8
40°-50°	1334.0	17.6
50°-60°	1225.2	16.2
60°-70°	965.0	12.7
70°-80°	592.0	7.8
80°-90°	178.1	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°	2009.3	26.5
0°-40°	3286.7	43.4
0°-60°	5845.9	77.1
0°-90°	7581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2597	2597	2597	2597	2597	
5°	2575	2578	2585	2593	2583	245
15°	2474	2479	2494	2508	2508	698
25°	2269	2274	2301	2329	2329	1044
35°	1990	2000	2041	2083	2093	1244
45°	1657	1675	1727	1787	1803	1277
55°	1281	1304	1364	1441	1464	1143
65°	867	897	975	1056	1085	857
75°	441	476	557	645	674	467
85°	80	110	161	205	208	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2596.7	2596.7	2596.7	2596.7	2596.7
2.5°	2586.7	2591.7	2593.4	2595.0	2583.4
5°	2575.1	2578.4	2585.1	2593.4	2583.4
7.5°	2558.4	2561.8	2570.1	2581.7	2576.7
10°	2540.1	2541.8	2551.8	2560.1	2550.1
12.5°	2510.2	2515.2	2526.8	2533.5	2530.2
15°	2473.6	2478.6	2493.6	2508.5	2508.5
17.5°	2430.3	2437.0	2455.3	2475.3	2476.9
20°	2382.1	2387.1	2410.4	2430.3	2430.3
22.5°	2327.2	2333.9	2357.2	2378.8	2382.1
25°	2269.0	2274.0	2300.6	2328.9	2328.9
27.5°	2200.8	2210.8	2244.0	2272.3	2279.0
30°	2134.2	2142.6	2179.2	2214.1	2219.1
32.5°	2064.4	2074.4	2112.6	2150.9	2159.2
35°	1989.5	1999.5	2041.1	2082.7	2092.7
37.5°	1911.3	1923.0	1966.2	2014.5	2024.5
40°	1829.8	1843.1	1889.7	1941.3	1951.3
42.5°	1743.3	1761.6	1811.5	1864.8	1879.7
45°	1656.8	1675.1	1726.7	1786.6	1803.2
47.5°	1565.3	1587.0	1640.2	1703.4	1721.7
50°	1473.8	1495.5	1550.4	1618.6	1638.5
52.5°	1380.7	1402.3	1458.9	1530.4	1552.0
55°	1280.9	1304.2	1364.1	1440.6	1463.9
57.5°	1177.7	1207.7	1270.9	1349.1	1372.4
60°	1074.6	1104.6	1176.1	1252.6	1279.2
62.5°	973.1	1001.4	1074.6	1156.1	1184.4
65°	866.7	896.6	974.8	1056.3	1084.6
67.5°	761.9	791.8	870.0	954.8	984.8
70°	653.7	687.0	766.9	851.7	881.6
72.5°	545.6	580.6	662.1	748.6	776.8
75°	440.8	475.8	557.3	645.4	673.7
77.5°	337.7	375.9	455.8	545.6	572.2
80°	244.5	281.1	356.0	444.1	474.1
82.5°	156.4	188.0	262.8	346.0	367.6
85°	79.8	109.8	161.4	204.6	207.9
87.5°	25.0	34.9	53.2	79.8	81.5
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	16.27	17.94	16.64	18.25	18.57	17.10	18.77	17.47	19.08	19.40
	3H	18.03	19.54	18.41	19.86	20.22	19.22	20.73	19.60	21.05	21.41
	4H	18.65	20.07	19.05	20.42	20.79	20.11	21.53	20.51	21.88	22.25
	6H	19.06	20.38	19.47	20.74	21.13	20.89	22.21	21.30	22.58	22.97
	8H	19.17	20.43	19.59	20.82	21.22	21.21	22.47	21.63	22.86	23.26
	12H	19.22	20.43	19.65	20.81	21.24	21.42	22.63	21.85	23.01	23.44
4H	2H	17.05	18.47	17.44	18.82	19.19	17.69	19.12	18.09	19.46	19.84
	3H	19.02	20.22	19.43	20.62	21.02	20.05	21.25	20.46	21.64	22.04
	4H	19.76	20.85	20.19	21.26	21.69	21.10	22.19	21.53	22.60	23.03
	6H	20.29	21.24	20.74	21.68	22.13	22.05	23.00	22.50	23.44	23.90
	8H	20.44	21.33	20.89	21.77	22.23	22.45	23.34	22.91	23.78	24.25
	12H	20.52	21.32	21.00	21.80	22.27	22.73	23.53	23.21	24.00	24.47
8H	4H	20.22	21.11	20.68	21.55	22.02	21.39	22.28	21.85	22.72	23.19
	6H	20.88	21.62	21.37	22.11	22.59	22.50	23.25	22.99	23.73	24.21
	8H	21.09	21.76	21.60	22.26	22.75	23.01	23.68	23.52	24.19	24.67
	12H	21.23	21.82	21.74	22.31	22.87	23.40	23.99	23.90	24.48	25.04
12H	4H	20.31	21.11	20.79	21.59	22.06	21.41	22.22	21.89	22.69	23.16
	6H	21.01	21.68	21.52	22.19	22.67	22.55	23.22	23.05	23.72	24.21
	8H	21.29	21.88	21.80	22.37	22.93	23.13	23.72	23.63	24.21	24.77