

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: P1588440

Luminaire Tested: 24CZSP-62-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588440
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-62-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

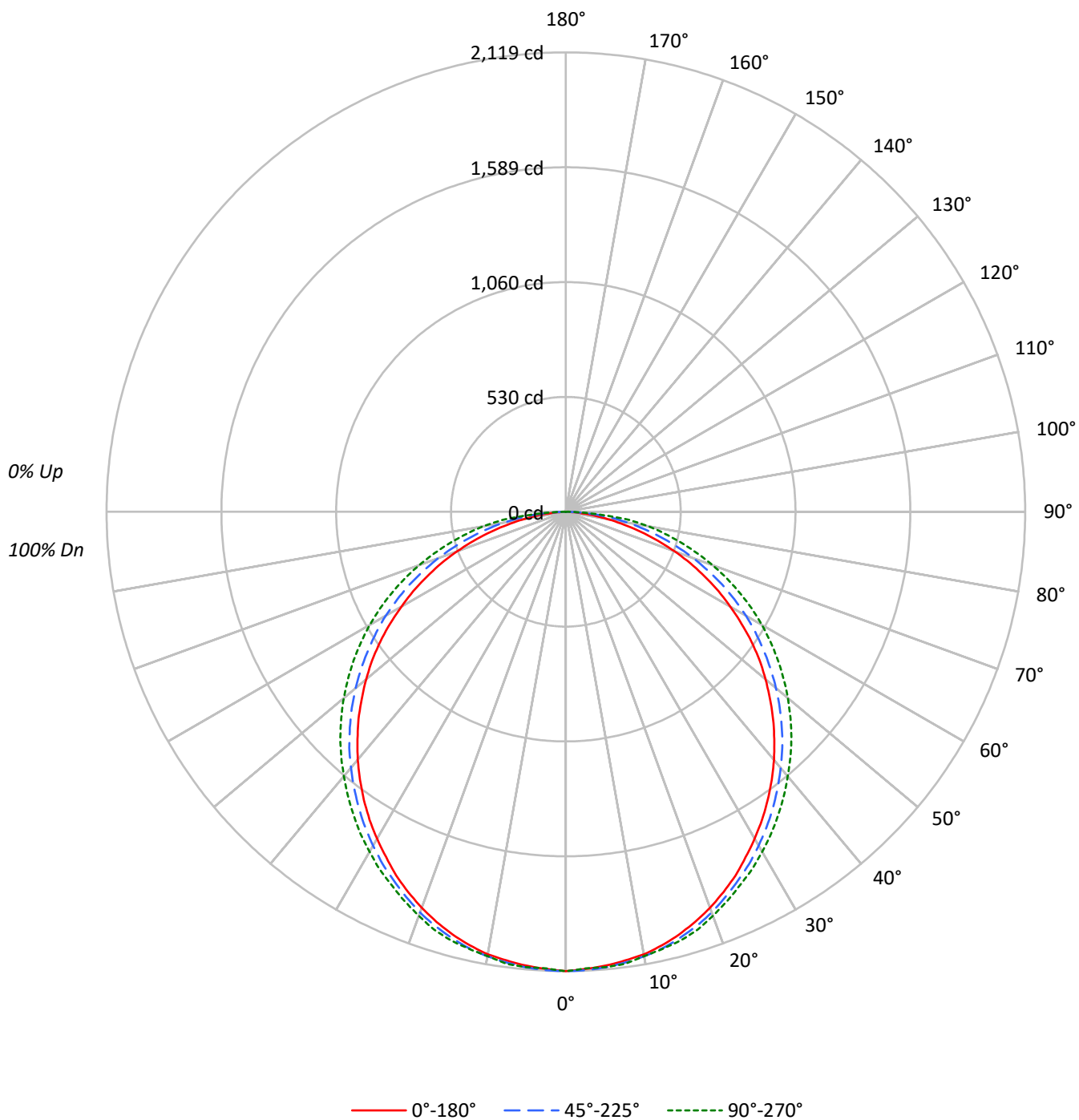
Lumens per Lamp: N/A
Luminaire Lumens: 6187.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3246	3246	3246
5°	3231	3244	3242
10°	3224	3239	3237
15°	3201	3227	3246
20°	3169	3206	3233
25°	3129	3173	3212
30°	3080	3145	3203
35°	3036	3115	3193
40°	2986	3083	3184
45°	2929	3052	3188
50°	2866	3015	3186
55°	2792	2973	3190
60°	2686	2940	3198
65°	2563	2883	3208
70°	2389	2803	3222
75°	2129	2691	3254
80°	1761	2562	3413
85°	1146	2314	2982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3520 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	3.2
10°-20°	573.9	9.3
20°-30°	865.5	14.0
30°-40°	1042.5	16.8
40°-50°	1088.7	17.6
50°-60°	999.9	16.2
60°-70°	787.5	12.7
70°-80°	483.1	7.8
80°-90°	145.4	2.4
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°	1639.8	26.5
0°-40°	2682.3	43.4
0°-60°	4770.9	77.1
0°-90°	6187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2119	2119	2119	2119	2119	
5°	2102	2104	2110	2116	2108	200
15°	2019	2023	2035	2047	2047	569
25°	1852	1856	1878	1901	1901	852
35°	1624	1632	1666	1700	1708	1016
45°	1352	1367	1409	1458	1472	1043
55°	1045	1064	1113	1176	1195	933
65°	707	732	796	862	885	700
75°	360	388	455	527	550	381
85°	65	90	132	167	170	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2119.2	2119.2	2119.2	2119.2	2119.2
2.5°	2111.1	2115.1	2116.5	2117.9	2108.4
5°	2101.6	2104.3	2109.7	2116.5	2108.4
7.5°	2088.0	2090.7	2097.5	2107.0	2102.9
10°	2073.1	2074.4	2082.6	2089.3	2081.2
12.5°	2048.6	2052.7	2062.2	2067.6	2064.9
15°	2018.8	2022.8	2035.0	2047.3	2047.3
17.5°	1983.5	1988.9	2003.8	2020.1	2021.5
20°	1944.1	1948.2	1967.2	1983.5	1983.5
22.5°	1899.3	1904.7	1923.7	1941.4	1944.1
25°	1851.8	1855.8	1877.6	1900.6	1900.6
27.5°	1796.1	1804.2	1831.4	1854.5	1859.9
30°	1741.8	1748.6	1778.5	1807.0	1811.0
32.5°	1684.8	1692.9	1724.2	1755.4	1762.2
35°	1623.7	1631.8	1665.8	1699.7	1707.9
37.5°	1559.9	1569.4	1604.7	1644.1	1652.2
40°	1493.4	1504.2	1542.2	1584.3	1592.5
42.5°	1422.8	1437.7	1478.4	1521.9	1534.1
45°	1352.2	1367.1	1409.2	1458.1	1471.6
47.5°	1277.5	1295.1	1338.6	1390.2	1405.1
50°	1202.8	1220.5	1265.3	1320.9	1337.2
52.5°	1126.8	1144.5	1190.6	1249.0	1266.6
55°	1045.4	1064.4	1113.2	1175.7	1194.7
57.5°	961.2	985.6	1037.2	1101.0	1120.0
60°	877.0	901.4	959.8	1022.3	1044.0
62.5°	794.2	817.3	877.0	943.5	966.6
65°	707.3	731.7	795.6	862.1	885.2
67.5°	621.8	646.2	710.0	779.3	803.7
70°	533.5	560.7	625.9	695.1	719.5
72.5°	445.3	473.8	540.3	610.9	634.0
75°	359.8	388.3	454.8	526.7	549.8
77.5°	275.6	306.8	372.0	445.3	467.0
80°	199.6	229.4	290.5	362.5	386.9
82.5°	127.6	153.4	214.5	282.4	300.0
85°	65.2	89.6	131.7	167.0	169.7
87.5°	20.4	28.5	43.4	65.2	66.5
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	15.57	17.23	15.93	17.55	17.86	16.40	18.06	16.76	18.38	18.69
	3H	17.32	18.83	17.70	19.16	19.52	18.52	20.02	18.89	20.35	20.71
	4H	17.94	19.37	18.34	19.71	20.09	19.40	20.83	19.80	21.17	21.55
	6H	18.35	19.67	18.76	20.04	20.43	20.19	21.51	20.60	21.87	22.26
	8H	18.46	19.72	18.89	20.11	20.51	20.51	21.77	20.93	22.16	22.55
	12H	18.51	19.72	18.94	20.11	20.53	20.72	21.93	21.15	22.31	22.74
4H	2H	16.34	17.76	16.74	18.11	18.48	16.99	18.41	17.38	18.76	19.13
	3H	18.32	19.52	18.73	19.91	20.31	19.34	20.54	19.75	20.94	21.34
	4H	19.05	20.14	19.49	20.55	20.99	20.39	21.48	20.82	21.89	22.33
	6H	19.58	20.54	20.04	20.98	21.43	21.35	22.30	21.80	22.74	23.19
	8H	19.73	20.62	20.19	21.06	21.53	21.74	22.64	22.20	23.08	23.54
	12H	19.81	20.62	20.29	21.09	21.56	22.02	22.82	22.50	23.30	23.77
8H	4H	19.51	20.41	19.97	20.85	21.31	20.68	21.58	21.14	22.02	22.48
	6H	20.17	20.92	20.67	21.41	21.88	21.79	22.54	22.29	23.03	23.50
	8H	20.39	21.05	20.89	21.56	22.04	22.31	22.97	22.81	23.48	23.96
	12H	20.52	21.12	21.03	21.61	22.16	22.69	23.28	23.20	23.77	24.33
12H	4H	19.60	20.41	20.08	20.88	21.35	20.71	21.51	21.19	21.98	22.45
	6H	20.31	20.98	20.81	21.48	21.97	21.84	22.51	22.35	23.02	23.50
	8H	20.58	21.18	21.09	21.67	22.22	22.42	23.01	22.93	23.50	24.06