

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: P1588781

Luminaire Tested: 24CZSP-A-62-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-62-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

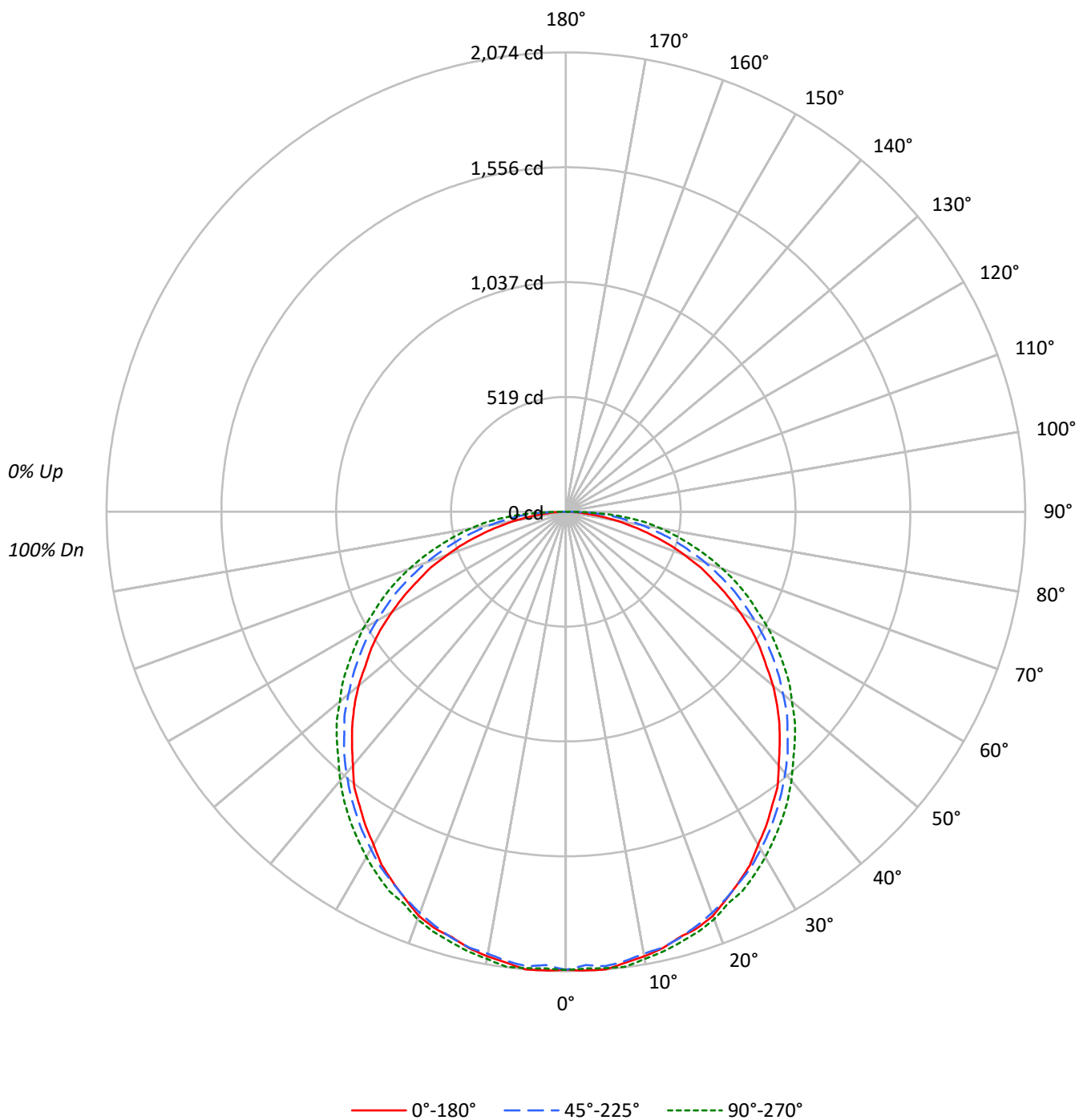
Lumens per Lamp: N/A
Luminaire Lumens: 6313.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3168	3168	3168
5°	3189	3166	3180
10°	3170	3151	3188
15°	3153	3157	3188
20°	3164	3142	3191
25°	3120	3125	3191
30°	3070	3113	3185
35°	3033	3095	3177
40°	2990	3080	3168
45°	2954	3065	3167
50°	2911	3051	3174
55°	2858	3040	3201
60°	2779	3020	3237
65°	2668	3019	3287
70°	2546	2999	3365
75°	2344	3006	3489
80°	2053	3067	3840
85°	1568	3534	4597

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	3.1
10°-20°	564.5	8.9
20°-30°	857.5	13.6
30°-40°	1038.8	16.5
40°-50°	1092.8	17.3
50°-60°	1016.1	16.1
60°-70°	818.2	13.0
70°-80°	530.0	8.4
80°-90°	198.7	3.1
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°	1618.4	25.6
0°-40°	2657.1	42.1
0°-60°	4766.1	75.5
0°-90°	6313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2074	2071	2059	2071	2068	196
15°	1988	1996	1991	2015	2011	563
25°	1846	1844	1849	1881	1888	851
35°	1622	1634	1656	1684	1699	1016
45°	1364	1382	1415	1445	1462	1051
55°	1070	1098	1138	1184	1199	955
65°	736	770	833	883	907	732
75°	396	435	508	567	590	421
85°	89	132	201	251	262	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2072.8	2072.8	2048.6	2074.3	2063.7
5°	2074.3	2071.3	2059.2	2071.3	2068.3
7.5°	2053.2	2056.2	2045.6	2060.7	2071.3
10°	2038.0	2041.1	2025.9	2050.1	2050.1
12.5°	2018.4	2021.4	2015.4	2038.0	2033.5
15°	1988.2	1995.7	1991.2	2015.4	2010.8
17.5°	1971.5	1965.5	1960.9	1979.1	1988.2
20°	1941.3	1927.7	1927.7	1951.9	1957.9
22.5°	1892.9	1888.4	1889.9	1920.1	1914.1
25°	1846.0	1844.5	1849.1	1880.8	1888.4
27.5°	1799.2	1796.1	1809.7	1840.0	1846.0
30°	1735.7	1741.7	1759.9	1793.1	1800.7
32.5°	1682.7	1693.3	1710.0	1741.7	1750.8
35°	1622.3	1634.4	1655.5	1684.3	1699.4
37.5°	1569.4	1576.9	1599.6	1626.8	1644.9
40°	1495.3	1514.9	1540.6	1579.9	1584.5
42.5°	1428.7	1448.4	1481.7	1524.0	1519.5
45°	1363.7	1381.9	1415.1	1445.4	1462.0
47.5°	1294.2	1310.8	1354.7	1390.9	1403.0
50°	1221.6	1242.8	1280.6	1318.4	1332.0
52.5°	1140.0	1162.7	1211.0	1251.9	1271.5
55°	1070.4	1097.6	1138.5	1183.8	1198.9
57.5°	993.3	1016.0	1065.9	1111.2	1126.4
60°	907.1	934.4	985.8	1034.1	1056.8
62.5°	824.0	854.2	908.7	958.5	976.7
65°	736.3	769.6	833.1	883.0	907.1
67.5°	660.7	687.9	749.9	805.8	831.5
70°	568.5	604.8	669.8	731.8	751.4
72.5°	486.8	518.6	586.6	648.6	672.8
75°	396.1	435.4	508.0	567.0	589.6
77.5°	313.0	353.8	426.4	488.3	514.0
80°	232.8	272.1	347.7	411.2	435.4
82.5°	157.2	196.5	272.1	334.1	361.3
85°	89.2	131.5	201.1	251.0	261.6
87.5°	39.3	75.6	113.4	136.1	145.1
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	15.69	17.37	16.05	17.69	18.00	16.36	18.05	16.73	18.36	18.67
	3H	17.54	19.07	17.92	19.40	19.76	18.58	20.11	18.96	20.44	20.80
	4H	18.23	19.68	18.63	20.02	20.40	19.55	20.99	19.94	21.34	21.71
	6H	18.72	20.07	19.13	20.43	20.82	20.44	21.78	20.85	22.14	22.53
	8H	18.87	20.15	19.29	20.54	20.94	20.84	22.13	21.26	22.51	22.91
	12H	18.96	20.19	19.39	20.57	21.00	21.20	22.43	21.63	22.81	23.24
4H	2H	16.48	17.93	16.88	18.27	18.65	17.00	18.45	17.40	18.79	19.17
	3H	18.57	19.79	18.98	20.19	20.59	19.46	20.68	19.87	21.08	21.48
	4H	19.39	20.50	19.82	20.91	21.35	20.59	21.70	21.02	22.11	22.55
	6H	20.02	20.99	20.47	21.43	21.88	21.66	22.64	22.11	23.08	23.53
	8H	20.21	21.13	20.67	21.57	22.03	22.15	23.07	22.61	23.51	23.97
	12H	20.35	21.17	20.83	21.65	22.12	22.60	23.43	23.08	23.90	24.37
8H	4H	19.90	20.81	20.36	21.26	21.72	20.93	21.85	21.39	22.29	22.75
	6H	20.68	21.45	21.18	21.94	22.41	22.18	22.95	22.68	23.44	23.91
	8H	20.97	21.66	21.47	22.16	22.65	22.81	23.50	23.31	24.00	24.49
	12H	21.19	21.80	21.69	22.29	22.84	23.42	24.03	23.92	24.52	25.08
12H	4H	20.01	20.83	20.49	21.31	21.77	20.97	21.80	21.45	22.27	22.74
	6H	20.85	21.54	21.36	22.05	22.53	22.26	22.95	22.76	23.45	23.94
	8H	21.22	21.83	21.73	22.32	22.88	22.96	23.58	23.47	24.07	24.62