

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: P1588901

Luminaire Tested: 24CZSP-A-80-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588901
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-80-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

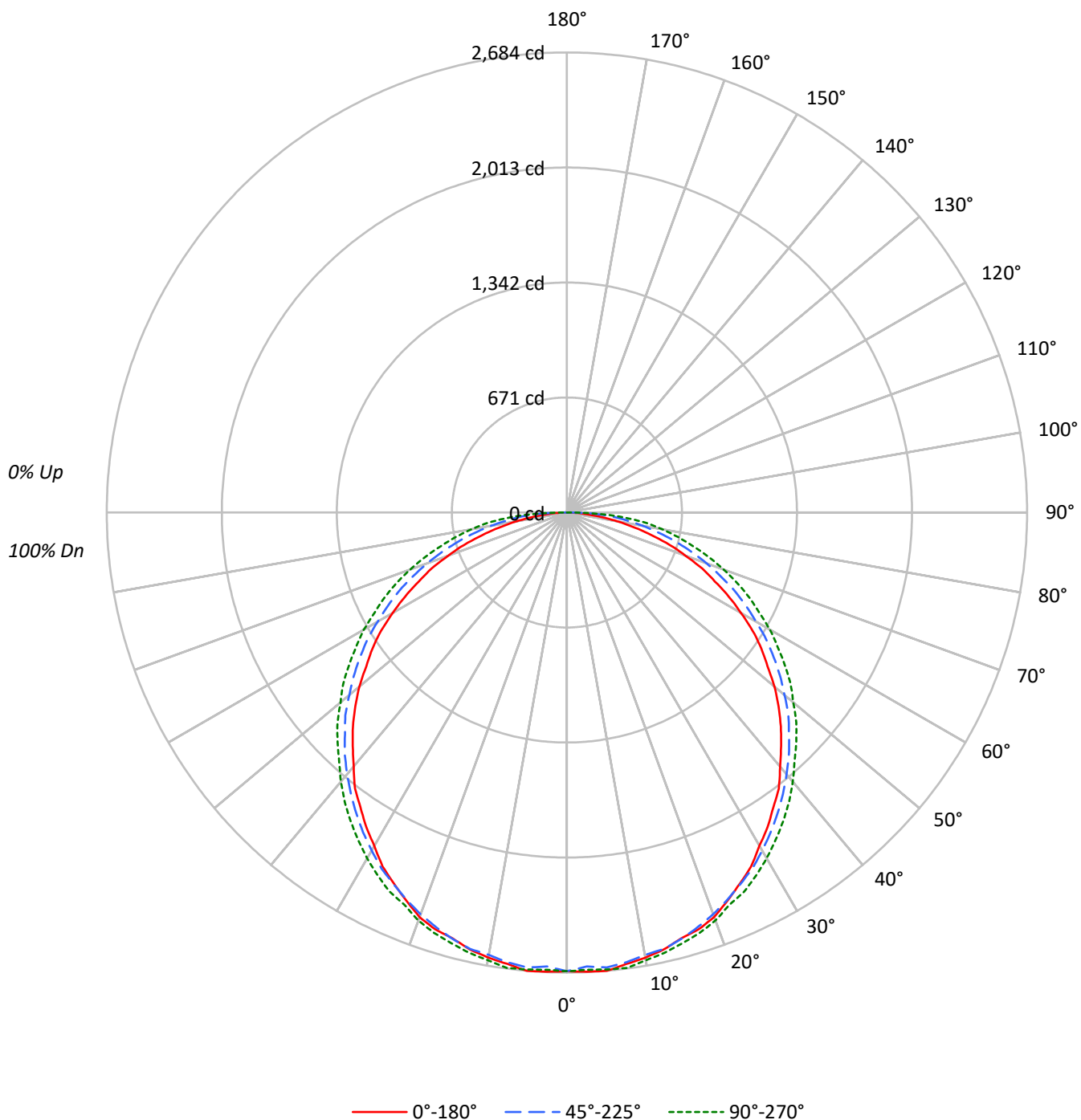
Lumens per Lamp: N/A
Luminaire Lumens: 8168.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	4099	4099	4099
5°	4126	4096	4114
10°	4101	4077	4125
15°	4079	4085	4125
20°	4094	4065	4129
25°	4036	4043	4129
30°	3972	4027	4120
35°	3925	4005	4111
40°	3868	3985	4099
45°	3822	3966	4097
50°	3766	3948	4106
55°	3698	3933	4142
60°	3595	3907	4189
65°	3452	3906	4254
70°	3294	3881	4354
75°	3033	3890	4515
80°	2657	3968	4969
85°	2028	4573	5947

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	3.1
10°-20°	730.4	8.9
20°-30°	1109.5	13.6
30°-40°	1344.0	16.5
40°-50°	1414.0	17.3
50°-60°	1314.7	16.1
60°-70°	1058.6	13.0
70°-80°	685.7	8.4
80°-90°	257.2	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°	2093.9	25.6
0°-40°	3437.9	42.1
0°-60°	6166.6	75.5
0°-90°	8168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2676	2676	2676	2676	2676	
5°	2684	2680	2664	2680	2676	254
15°	2572	2582	2576	2608	2602	729
25°	2388	2386	2392	2434	2443	1101
35°	2099	2115	2142	2179	2199	1315
45°	1764	1788	1831	1870	1892	1360
55°	1385	1420	1473	1532	1551	1235
65°	953	996	1078	1142	1174	947
75°	512	563	657	734	763	545
85°	115	170	260	325	338	142
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2676.0	2676.0	2676.0	2676.0	2676.0
2.5°	2681.9	2681.9	2650.6	2683.8	2670.2
5°	2683.8	2679.9	2664.3	2679.9	2676.0
7.5°	2656.5	2660.4	2646.7	2666.2	2679.9
10°	2636.9	2640.8	2621.2	2652.5	2652.5
12.5°	2611.5	2615.4	2607.6	2636.9	2631.0
15°	2572.3	2582.1	2576.3	2607.6	2601.7
17.5°	2550.8	2543.0	2537.1	2560.6	2572.3
20°	2511.7	2494.1	2494.1	2525.4	2533.2
22.5°	2449.1	2443.2	2445.2	2484.3	2476.5
25°	2388.5	2386.5	2392.4	2433.5	2443.2
27.5°	2327.8	2323.9	2341.5	2380.6	2388.5
30°	2245.7	2253.5	2277.0	2320.0	2329.8
32.5°	2177.2	2190.9	2212.4	2253.5	2265.2
35°	2099.0	2114.6	2142.0	2179.2	2198.7
37.5°	2030.5	2040.3	2069.6	2104.8	2128.3
40°	1934.6	1960.1	1993.3	2044.2	2050.1
42.5°	1848.6	1874.0	1917.0	1971.8	1965.9
45°	1764.5	1787.9	1831.0	1870.1	1891.6
47.5°	1674.5	1696.0	1752.7	1799.7	1815.3
50°	1580.6	1608.0	1656.9	1705.8	1723.4
52.5°	1474.9	1504.3	1566.9	1619.7	1645.1
55°	1385.0	1420.2	1473.0	1531.7	1551.2
57.5°	1285.2	1314.5	1379.1	1437.8	1457.3
60°	1173.7	1208.9	1275.4	1338.0	1367.4
62.5°	1066.1	1105.2	1175.6	1240.2	1263.7
65°	952.6	995.7	1077.8	1142.4	1173.7
67.5°	854.8	890.1	970.3	1042.6	1075.9
70°	735.5	782.5	866.6	946.8	972.2
72.5°	629.9	671.0	759.0	839.2	870.5
75°	512.5	563.4	657.3	733.6	762.9
77.5°	404.9	457.7	551.6	631.8	665.1
80°	301.2	352.1	449.9	532.1	563.4
82.5°	203.4	254.3	352.1	432.3	467.5
85°	115.4	170.2	260.2	324.7	338.4
87.5°	50.9	97.8	146.7	176.1	187.8
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	16.58	18.27	16.95	18.58	18.89	17.26	18.94	17.62	19.26	19.57
	3H	18.44	19.97	18.82	20.29	20.65	19.48	21.01	19.85	21.33	21.69
	4H	19.13	20.57	19.52	20.92	21.29	20.44	21.89	20.84	22.23	22.61
	6H	19.62	20.96	20.03	21.32	21.71	21.33	22.68	21.74	23.04	23.43
	8H	19.77	21.05	20.19	21.44	21.84	21.74	23.02	22.16	23.41	23.81
	12H	19.85	21.09	20.28	21.47	21.90	22.10	23.33	22.52	23.71	24.14
4H	2H	17.38	18.82	17.78	19.17	19.54	17.90	19.34	18.30	19.69	20.06
	3H	19.47	20.69	19.87	21.08	21.48	20.36	21.58	20.77	21.98	22.37
	4H	20.29	21.40	20.72	21.81	22.24	21.49	22.60	21.92	23.01	23.44
	6H	20.91	21.89	21.36	22.33	22.78	22.56	23.53	23.01	23.97	24.42
	8H	21.11	22.02	21.57	22.46	22.93	23.05	23.96	23.51	24.40	24.87
	12H	21.24	22.07	21.72	22.54	23.01	23.50	24.33	23.98	24.80	25.27
8H	4H	20.79	21.71	21.25	22.15	22.61	21.83	22.74	22.29	23.19	23.65
	6H	21.58	22.35	22.07	22.83	23.31	23.08	23.85	23.57	24.33	24.81
	8H	21.86	22.55	22.37	23.06	23.54	23.70	24.39	24.21	24.90	25.38
	12H	22.08	22.69	22.58	23.18	23.74	24.31	24.93	24.82	25.42	25.97
12H	4H	20.90	21.73	21.38	22.20	22.67	21.87	22.69	22.35	23.17	23.64
	6H	21.75	22.44	22.25	22.94	23.43	23.15	23.85	23.66	24.35	24.83
	8H	22.12	22.73	22.62	23.22	23.78	23.86	24.47	24.36	24.96	25.52