

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: P1588560

Luminaire Tested: 24CZSP-80-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588560
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-80-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

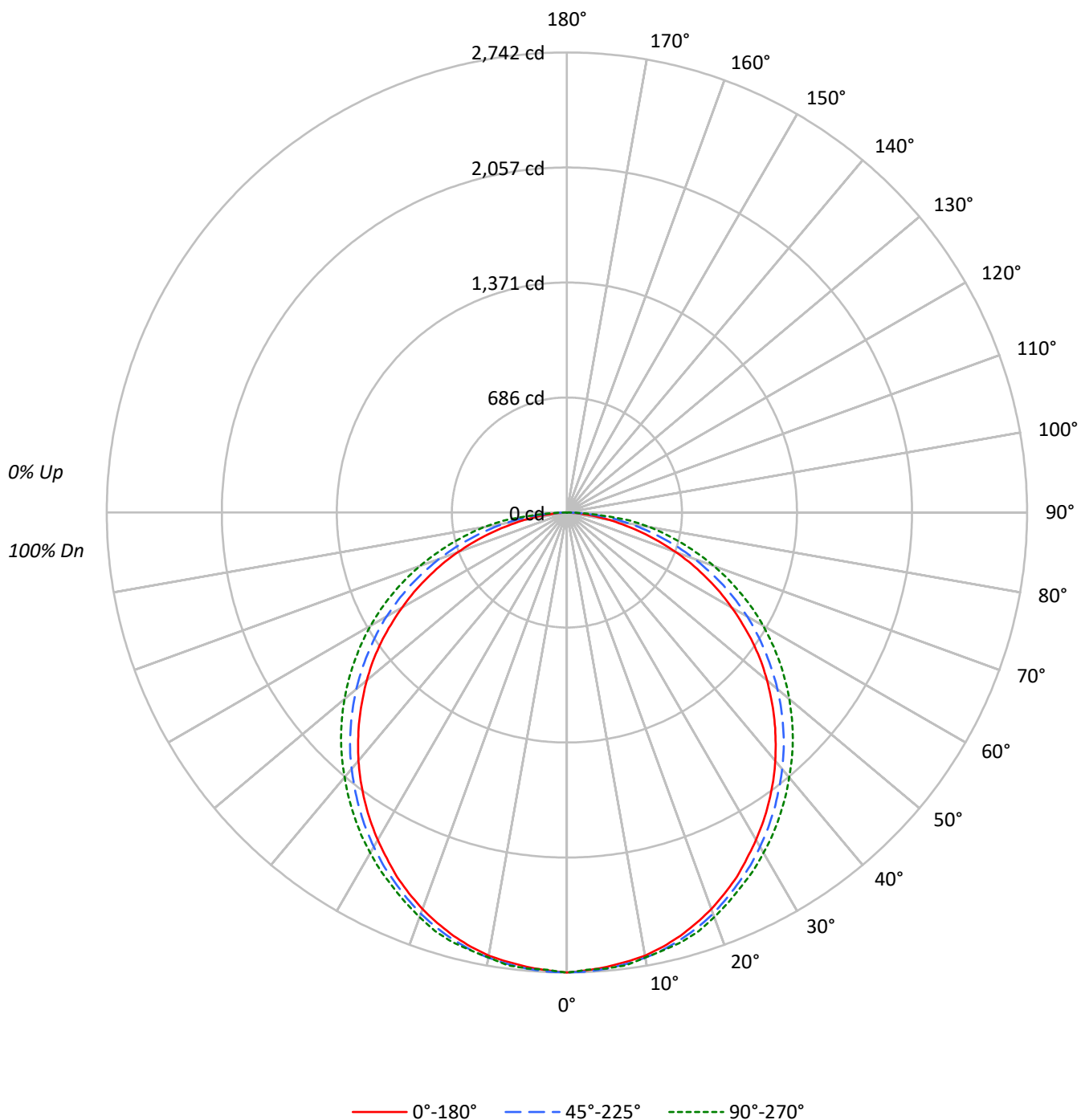
Lumens per Lamp: N/A
Luminaire Lumens: 8005.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4200	4200	4200
5°	4181	4197	4194
10°	4172	4191	4188
15°	4142	4175	4200
20°	4100	4148	4183
25°	4049	4105	4156
30°	3986	4069	4144
35°	3928	4030	4132
40°	3863	3990	4120
45°	3789	3949	4124
50°	3708	3901	4123
55°	3612	3846	4127
60°	3476	3804	4138
65°	3316	3730	4151
70°	3091	3626	4169
75°	2755	3482	4210
80°	2277	3316	4415
85°	1481	2995	3859

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.3	3.2
10°-20°	742.5	9.3
20°-30°	1119.8	14.0
30°-40°	1348.8	16.8
40°-50°	1408.7	17.6
50°-60°	1293.7	16.2
60°-70°	1018.9	12.7
70°-80°	625.1	7.8
80°-90°	188.1	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°	2121.7	26.5
0°-40°	3470.5	43.4
0°-60°	6172.8	77.1
0°-90°	8005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2719	2723	2730	2738	2728	258
15°	2612	2617	2633	2649	2649	737
25°	2396	2401	2429	2459	2459	1103
35°	2101	2111	2155	2199	2210	1314
45°	1750	1769	1823	1886	1904	1349
55°	1352	1377	1440	1521	1546	1207
65°	915	947	1029	1115	1145	905
75°	466	502	588	682	711	494
85°	84	116	170	216	220	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2741.9	2741.9	2741.9	2741.9	2741.9
2.5°	2731.4	2736.7	2738.4	2740.2	2727.9
5°	2719.1	2722.6	2729.6	2738.4	2727.9
7.5°	2701.5	2705.0	2713.8	2726.1	2720.8
10°	2682.2	2684.0	2694.5	2703.3	2692.7
12.5°	2650.6	2655.9	2668.2	2675.2	2671.7
15°	2611.9	2617.2	2633.0	2648.8	2648.8
17.5°	2566.3	2573.3	2592.6	2613.7	2615.5
20°	2515.3	2520.6	2545.2	2566.3	2566.3
22.5°	2457.4	2464.4	2489.0	2511.8	2515.3
25°	2395.9	2401.2	2429.3	2459.1	2459.1
27.5°	2323.9	2334.4	2369.5	2399.4	2406.4
30°	2253.6	2262.4	2301.0	2337.9	2343.2
32.5°	2179.8	2190.4	2230.8	2271.2	2280.0
35°	2100.8	2111.3	2155.2	2199.2	2209.7
37.5°	2018.2	2030.5	2076.2	2127.1	2137.7
40°	1932.2	1946.2	1995.4	2049.9	2060.4
42.5°	1840.8	1860.2	1912.8	1969.1	1984.9
45°	1749.5	1768.8	1823.3	1886.5	1904.1
47.5°	1652.9	1675.7	1731.9	1798.7	1818.0
50°	1556.3	1579.1	1637.1	1709.1	1730.2
52.5°	1457.9	1480.7	1540.5	1616.0	1638.8
55°	1352.5	1377.1	1440.3	1521.1	1545.7
57.5°	1243.6	1275.2	1342.0	1424.5	1449.1
60°	1134.7	1166.3	1241.9	1322.7	1350.8
62.5°	1027.6	1057.4	1134.7	1220.8	1250.6
65°	915.1	946.8	1029.3	1115.4	1145.3
67.5°	804.5	836.1	918.7	1008.2	1039.9
70°	690.3	725.4	809.8	899.3	931.0
72.5°	576.1	613.0	699.1	790.4	820.3
75°	465.5	502.4	588.4	681.5	711.4
77.5°	356.6	397.0	481.3	576.1	604.2
80°	258.2	296.9	375.9	469.0	500.6
82.5°	165.1	198.5	277.5	365.4	388.2
85°	84.3	115.9	170.4	216.1	219.6
87.5°	26.3	36.9	56.2	84.3	86.1
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	16.46	18.13	16.83	18.44	18.75	17.29	18.96	17.66	19.27	19.58
	3H	18.22	19.73	18.60	20.05	20.41	19.41	20.92	19.79	21.24	21.60
	4H	18.84	20.26	19.24	20.61	20.98	20.30	21.72	20.70	22.07	22.44
	6H	19.25	20.57	19.66	20.93	21.32	21.08	22.40	21.49	22.76	23.15
	8H	19.36	20.62	19.78	21.01	21.41	21.40	22.66	21.82	23.05	23.45
	12H	19.41	20.62	19.84	21.00	21.43	21.61	22.82	22.04	23.20	23.63
4H	2H	17.24	18.66	17.63	19.00	19.38	17.88	19.30	18.28	19.65	20.03
	3H	19.21	20.41	19.62	20.81	21.21	20.24	21.43	20.65	21.83	22.23
	4H	19.95	21.04	20.38	21.45	21.88	21.29	22.38	21.72	22.79	23.22
	6H	20.48	21.43	20.93	21.87	22.32	22.24	23.19	22.69	23.63	24.09
	8H	20.62	21.52	21.08	21.96	22.42	22.64	23.53	23.10	23.97	24.44
	12H	20.71	21.51	21.19	21.99	22.45	22.92	23.72	23.39	24.19	24.66
8H	4H	20.41	21.30	20.87	21.74	22.21	21.58	22.47	22.04	22.91	23.38
	6H	21.07	21.81	21.56	22.30	22.77	22.69	23.43	23.18	23.92	24.39
	8H	21.28	21.95	21.79	22.45	22.94	23.20	23.87	23.71	24.37	24.86
	12H	21.42	22.01	21.92	22.50	23.06	23.59	24.18	24.09	24.67	25.23
12H	4H	20.50	21.30	20.98	21.78	22.24	21.60	22.41	22.08	22.88	23.35
	6H	21.20	21.87	21.71	22.38	22.86	22.74	23.41	23.24	23.91	24.40
	8H	21.48	22.07	21.99	22.56	23.12	23.32	23.91	23.82	24.40	24.96