

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: P1588911

Luminaire Tested: 24CZSP-A-80-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588911
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-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 8000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

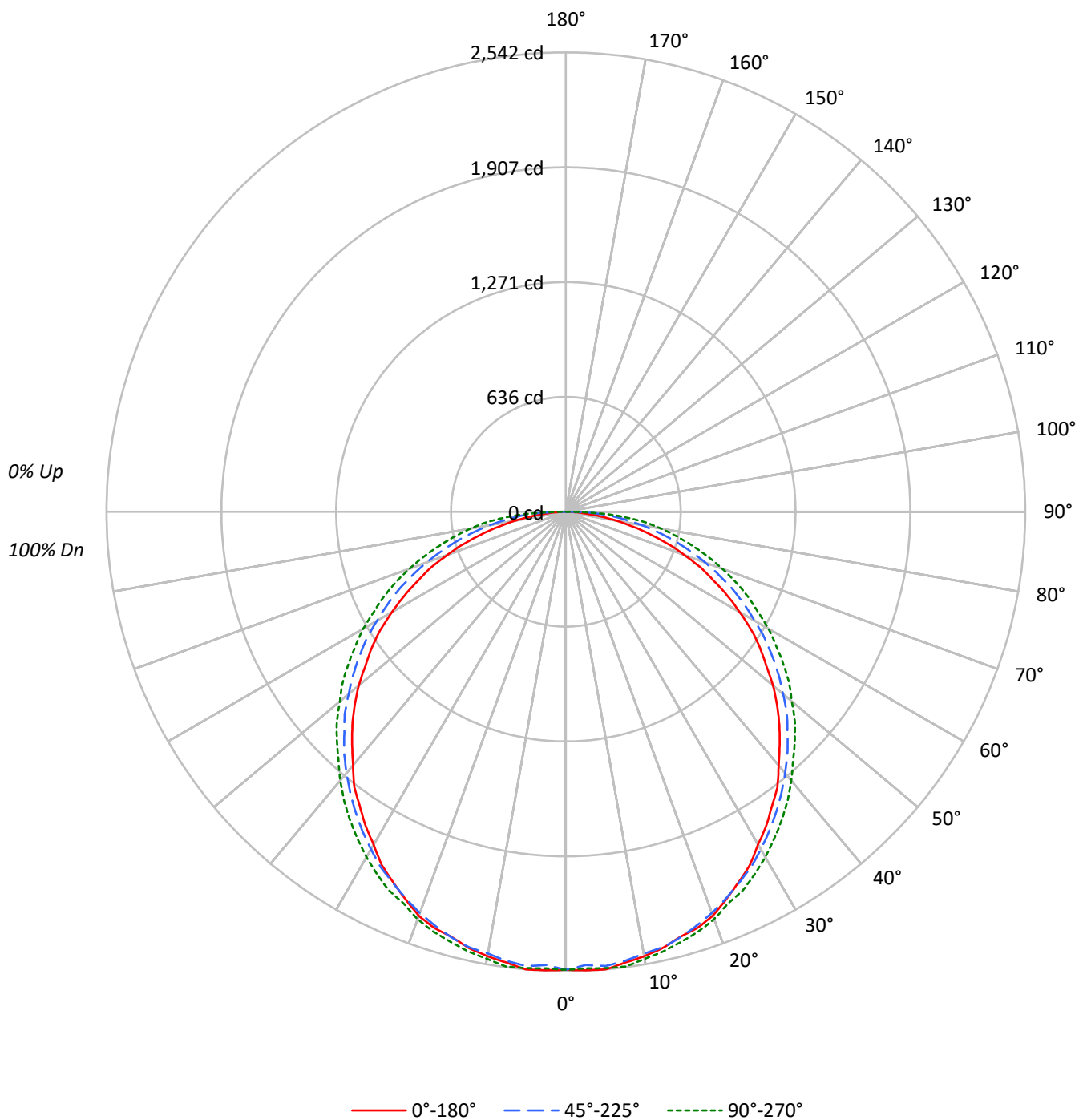
Lumens per Lamp: N/A
Luminaire Lumens: 7736.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3882	3882	3882
5°	3908	3880	3897
10°	3884	3861	3907
15°	3863	3869	3907
20°	3877	3850	3911
25°	3823	3829	3911
30°	3762	3814	3903
35°	3717	3793	3894
40°	3663	3775	3882
45°	3620	3756	3881
50°	3567	3739	3889
55°	3503	3725	3923
60°	3405	3700	3967
65°	3270	3700	4029
70°	3119	3675	4124
75°	2872	3684	4276
80°	2516	3758	4707
85°	1921	4330	5632

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6247 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	3.1
10°-20°	691.7	8.9
20°-30°	1050.8	13.6
30°-40°	1272.9	16.5
40°-50°	1339.2	17.3
50°-60°	1245.2	16.1
60°-70°	1002.6	13.0
70°-80°	649.4	8.4
80°-90°	243.6	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°	1983.2	25.6
0°-40°	3256.1	42.1
0°-60°	5840.4	75.5
0°-90°	7736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2534	2534	2534	2534	2534	
5°	2542	2538	2523	2538	2534	241
15°	2436	2446	2440	2470	2464	690
25°	2262	2260	2266	2305	2314	1043
35°	1988	2003	2029	2064	2082	1245
45°	1671	1693	1734	1771	1792	1288
55°	1312	1345	1395	1451	1469	1170
65°	902	943	1021	1082	1112	897
75°	485	534	622	695	723	516
85°	109	161	246	308	320	134
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2534.5	2534.5	2534.5	2534.5	2534.5
2.5°	2540.0	2540.0	2510.4	2541.9	2528.9
5°	2541.9	2538.2	2523.4	2538.2	2534.5
7.5°	2516.0	2519.7	2506.7	2525.2	2538.2
10°	2497.4	2501.1	2482.6	2512.3	2512.3
12.5°	2473.3	2477.1	2469.6	2497.4	2491.9
15°	2436.3	2445.6	2440.0	2469.6	2464.1
17.5°	2415.9	2408.5	2402.9	2425.2	2436.3
20°	2378.9	2362.2	2362.2	2391.8	2399.2
22.5°	2319.6	2314.0	2315.9	2352.9	2345.5
25°	2262.1	2260.3	2265.8	2304.8	2314.0
27.5°	2204.7	2201.0	2217.7	2254.7	2262.1
30°	2126.9	2134.3	2156.5	2197.3	2206.6
32.5°	2062.1	2075.0	2095.4	2134.3	2145.4
35°	1987.9	2002.8	2028.7	2063.9	2082.4
37.5°	1923.1	1932.4	1960.2	1993.5	2015.7
40°	1832.3	1856.4	1887.9	1936.1	1941.6
42.5°	1750.8	1774.9	1815.6	1867.5	1862.0
45°	1671.1	1693.4	1734.1	1771.2	1791.6
47.5°	1585.9	1606.3	1660.0	1704.5	1719.3
50°	1497.0	1522.9	1569.2	1615.6	1632.2
52.5°	1396.9	1424.7	1484.0	1534.0	1558.1
55°	1311.7	1345.1	1395.1	1450.7	1469.2
57.5°	1217.2	1245.0	1306.2	1361.7	1380.3
60°	1111.6	1145.0	1208.0	1267.2	1295.0
62.5°	1009.7	1046.8	1113.5	1174.6	1196.8
65°	902.3	943.0	1020.8	1082.0	1111.6
67.5°	809.6	843.0	918.9	987.5	1019.0
70°	696.6	741.1	820.7	896.7	920.8
72.5°	596.6	635.5	718.8	794.8	824.4
75°	485.4	533.6	622.5	694.8	722.6
77.5°	383.5	433.5	522.5	598.4	629.9
80°	285.3	333.5	426.1	503.9	533.6
82.5°	192.7	240.9	333.5	409.4	442.8
85°	109.3	161.2	246.4	307.5	320.5
87.5°	48.2	92.6	139.0	166.7	177.9
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	16.40	18.08	16.76	18.39	18.71	17.07	18.75	17.44	19.07	19.38
	3H	18.25	19.78	18.63	20.10	20.46	19.29	20.82	19.67	21.14	21.50
	4H	18.94	20.38	19.33	20.73	21.10	20.25	21.70	20.65	22.04	22.42
	6H	19.43	20.77	19.84	21.13	21.52	21.14	22.49	21.55	22.85	23.24
	8H	19.58	20.86	20.00	21.25	21.65	21.55	22.83	21.97	23.22	23.62
	12H	19.67	20.90	20.09	21.28	21.71	21.91	23.14	22.34	23.52	23.95
4H	2H	17.19	18.63	17.59	18.98	19.36	17.71	19.15	18.11	19.50	19.87
	3H	19.28	20.50	19.69	20.89	21.29	20.17	21.39	20.58	21.79	22.19
	4H	20.10	21.21	20.53	21.62	22.05	21.30	22.41	21.73	22.82	23.25
	6H	20.72	21.70	21.17	22.14	22.59	22.37	23.34	22.82	23.78	24.24
	8H	20.92	21.84	21.38	22.28	22.74	22.86	23.77	23.32	24.21	24.68
	12H	21.05	21.88	21.53	22.35	22.82	23.31	24.14	23.79	24.61	25.08
8H	4H	20.61	21.52	21.06	21.96	22.43	21.64	22.56	22.10	23.00	23.46
	6H	21.39	22.16	21.88	22.64	23.12	22.89	23.66	23.38	24.14	24.62
	8H	21.67	22.36	22.18	22.87	23.35	23.51	24.20	24.02	24.71	25.19
	12H	21.89	22.50	22.40	22.99	23.55	24.12	24.74	24.63	25.23	25.78
12H	4H	20.71	21.54	21.19	22.01	22.48	21.68	22.51	22.16	22.98	23.45
	6H	21.56	22.25	22.06	22.75	23.24	22.96	23.66	23.47	24.16	24.64
	8H	21.93	22.54	22.43	23.03	23.59	23.67	24.28	24.17	24.77	25.33