

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: P1588905

Luminaire Tested: 24CZSP-A-80-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588905
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-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

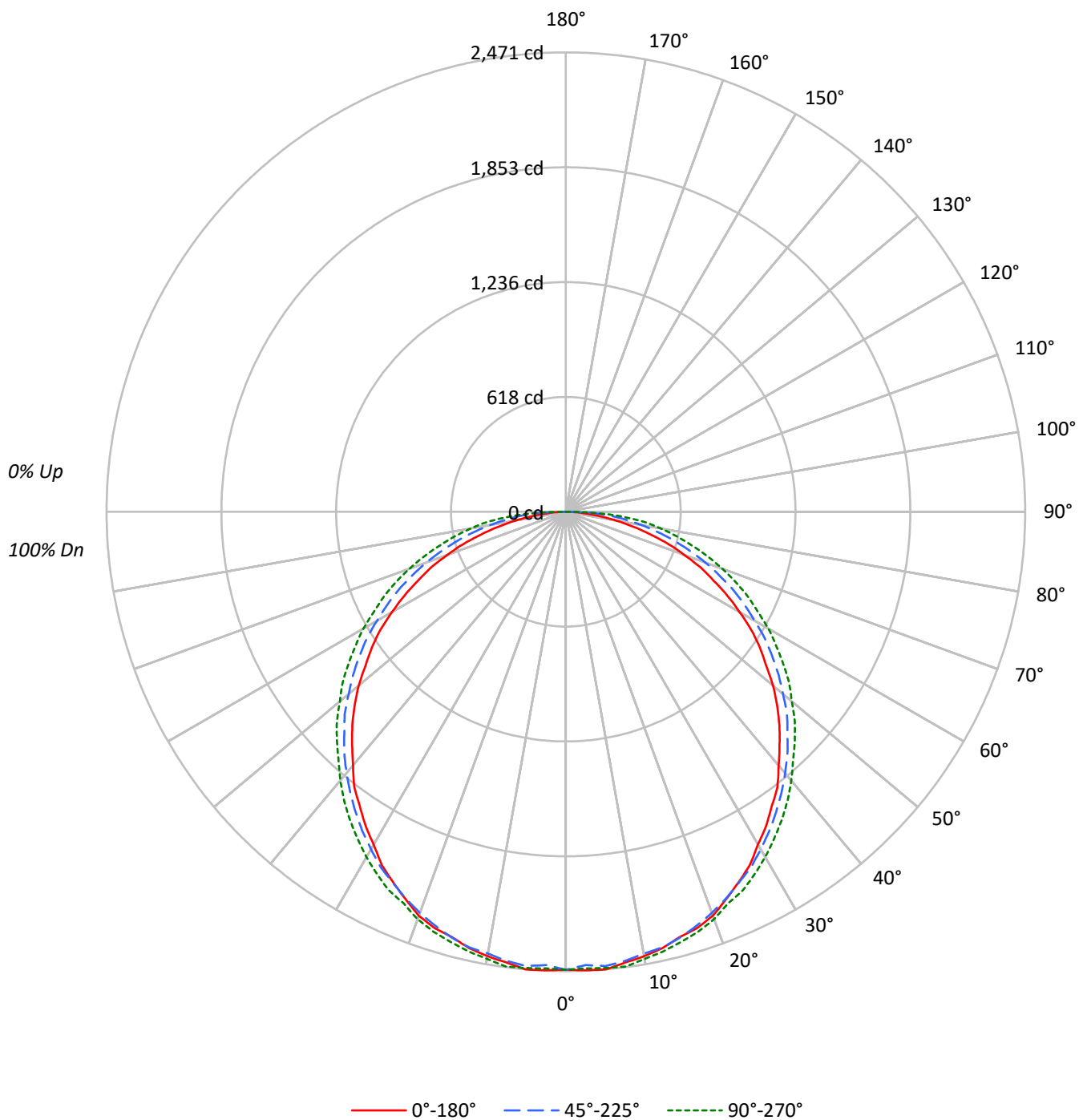
Lumens per Lamp: N/A
Luminaire Lumens: 7519.0 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3773	3773	3773
5°	3798	3771	3787
10°	3775	3753	3798
15°	3755	3761	3798
20°	3769	3742	3801
25°	3716	3722	3801
30°	3656	3707	3793
35°	3613	3687	3784
40°	3561	3669	3773
45°	3518	3651	3772
50°	3467	3634	3780
55°	3404	3621	3813
60°	3310	3597	3856
65°	3178	3596	3916
70°	3032	3572	4008
75°	2792	3580	4156
80°	2446	3653	4574
85°	1866	4209	5474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	3.1
10°-20°	672.3	8.9
20°-30°	1021.3	13.6
30°-40°	1237.2	16.5
40°-50°	1301.6	17.3
50°-60°	1210.2	16.1
60°-70°	974.5	13.0
70°-80°	631.2	8.4
80°-90°	236.7	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°	1927.6	25.6
0°-40°	3164.8	42.1
0°-60°	5676.6	75.5
0°-90°	7519.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2463	2463	2463	2463	2463	
5°	2471	2467	2453	2467	2463	234
15°	2368	2377	2372	2400	2395	671
25°	2199	2197	2202	2240	2249	1013
35°	1932	1947	1972	2006	2024	1211
45°	1624	1646	1686	1722	1741	1252
55°	1275	1307	1356	1410	1428	1137
65°	877	917	992	1052	1080	872
75°	472	519	605	675	702	501
85°	106	157	240	299	312	130
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2463.4	2463.4	2463.4	2463.4	2463.4
2.5°	2468.8	2468.8	2440.0	2470.6	2458.0
5°	2470.6	2467.0	2452.6	2467.0	2463.4
7.5°	2445.4	2449.0	2436.4	2454.4	2467.0
10°	2427.4	2431.0	2413.0	2441.8	2441.8
12.5°	2404.0	2407.6	2400.4	2427.4	2422.0
15°	2368.0	2377.0	2371.6	2400.4	2395.0
17.5°	2348.1	2340.9	2335.5	2357.2	2368.0
20°	2312.1	2295.9	2295.9	2324.7	2331.9
22.5°	2254.5	2249.1	2250.9	2286.9	2279.7
25°	2198.7	2196.9	2202.3	2240.1	2249.1
27.5°	2142.9	2139.3	2155.5	2191.5	2198.7
30°	2067.2	2074.4	2096.0	2135.7	2144.7
32.5°	2004.2	2016.8	2036.6	2074.4	2085.2
35°	1932.2	1946.6	1971.8	2006.0	2024.0
37.5°	1869.2	1878.2	1905.2	1937.6	1959.2
40°	1780.9	1804.3	1834.9	1881.8	1887.2
42.5°	1701.7	1725.1	1764.7	1815.1	1809.7
45°	1624.3	1645.9	1685.5	1721.5	1741.3
47.5°	1541.4	1561.2	1613.5	1656.7	1671.1
50°	1455.0	1480.2	1525.2	1570.2	1586.4
52.5°	1357.7	1384.8	1442.4	1491.0	1514.4
55°	1274.9	1307.3	1355.9	1410.0	1428.0
57.5°	1183.1	1210.1	1269.5	1323.5	1341.5
60°	1080.4	1112.8	1174.1	1231.7	1258.7
62.5°	981.4	1017.4	1082.2	1141.7	1163.3
65°	877.0	916.6	992.2	1051.6	1080.4
67.5°	786.9	819.3	893.2	959.8	990.4
70°	677.1	720.3	797.7	871.6	895.0
72.5°	579.8	617.6	698.7	772.5	801.3
75°	471.8	518.6	605.0	675.3	702.3
77.5°	372.8	421.4	507.8	581.6	612.2
80°	277.3	324.1	414.2	489.8	518.6
82.5°	187.3	234.1	324.1	398.0	430.4
85°	106.2	156.7	239.5	298.9	311.5
87.5°	46.8	90.0	135.1	162.1	172.9
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	16.30	17.98	16.66	18.29	18.61	16.97	18.65	17.34	18.97	19.28
	3H	18.15	19.68	18.53	20.01	20.37	19.19	20.72	19.57	21.04	21.40
	4H	18.84	20.28	19.24	20.63	21.00	20.15	21.60	20.55	21.94	22.32
	6H	19.33	20.67	19.74	21.04	21.43	21.05	22.39	21.46	22.75	23.14
	8H	19.48	20.76	19.90	21.15	21.55	21.45	22.73	21.87	23.12	23.52
	12H	19.57	20.80	20.00	21.18	21.61	21.81	23.04	22.24	23.42	23.85
4H	2H	17.09	18.54	17.49	18.88	19.26	17.61	19.05	18.01	19.40	19.78
	3H	19.18	20.40	19.59	20.80	21.19	20.07	21.29	20.48	21.69	22.09
	4H	20.00	21.11	20.43	21.52	21.95	21.20	22.31	21.63	22.72	23.16
	6H	20.62	21.60	21.08	22.04	22.49	22.27	23.25	22.72	23.68	24.14
	8H	20.82	21.74	21.28	22.18	22.64	22.76	23.68	23.22	24.12	24.58
	12H	20.96	21.78	21.43	22.26	22.72	23.21	24.04	23.69	24.51	24.98
8H	4H	20.51	21.42	20.96	21.86	22.33	21.54	22.46	22.00	22.90	23.36
	6H	21.29	22.06	21.78	22.54	23.02	22.79	23.56	23.28	24.04	24.52
	8H	21.58	22.27	22.08	22.77	23.25	23.42	24.11	23.92	24.61	25.09
	12H	21.79	22.41	22.30	22.89	23.45	24.03	24.64	24.53	25.13	25.68
12H	4H	20.61	21.44	21.09	21.91	22.38	21.58	22.41	22.06	22.88	23.35
	6H	21.46	22.15	21.96	22.65	23.14	22.87	23.56	23.37	24.06	24.54
	8H	21.83	22.44	22.33	22.93	23.49	23.57	24.18	24.08	24.67	25.23