

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: P1588563

Luminaire Tested: 24CZSP-80-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588563
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-80-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

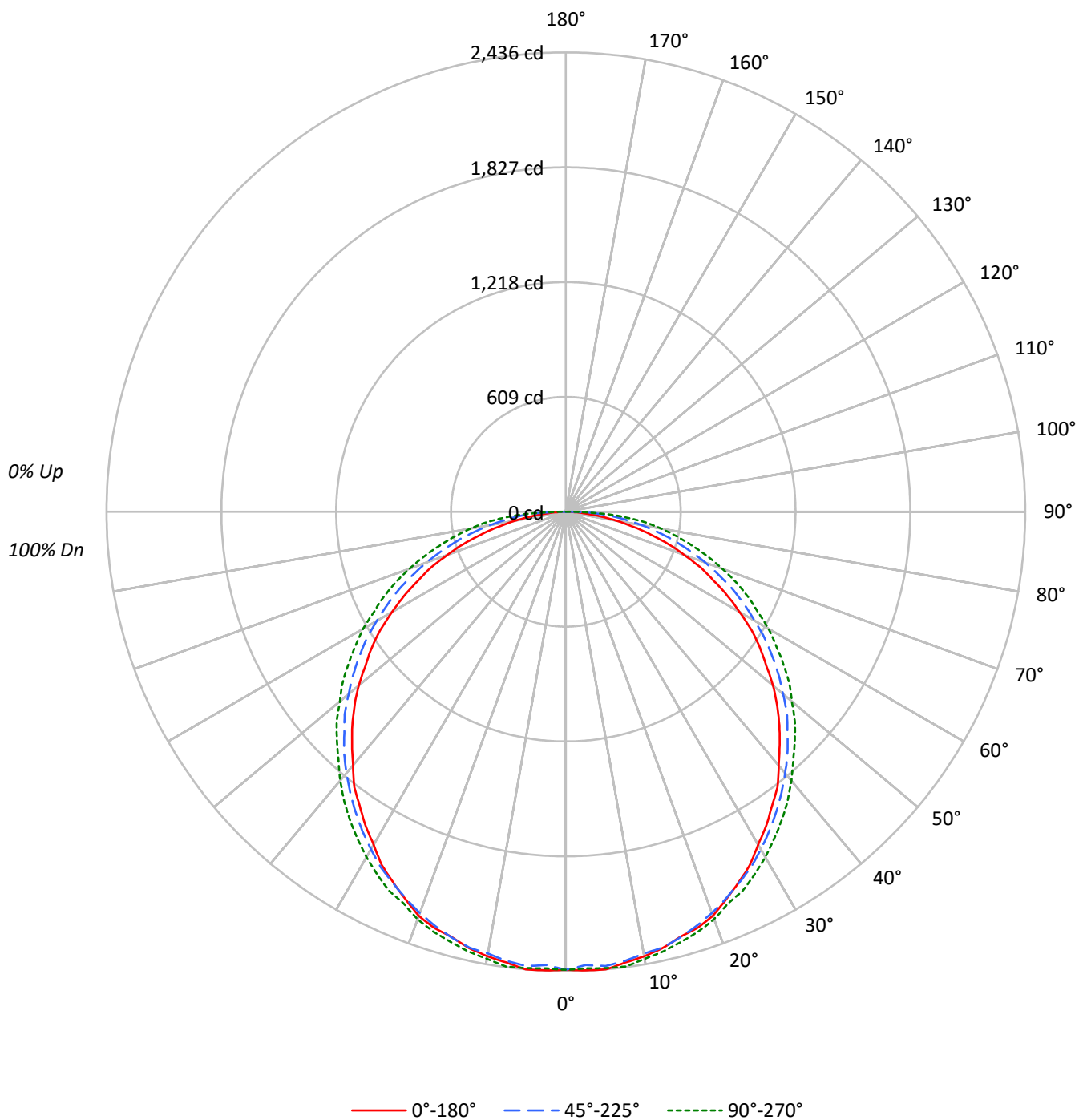
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7414.0 lumens
Efficiency: N/A
Efficacy: 118.2 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	50	30	10
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°	3720	3720	3720
5°	3745	3718	3735
10°	3722	3700	3745
15°	3702	3708	3745
20°	3716	3690	3748
25°	3664	3670	3748
30°	3605	3655	3740
35°	3562	3635	3732
40°	3511	3618	3720
45°	3469	3600	3719
50°	3419	3583	3727
55°	3357	3570	3760
60°	3263	3546	3802
65°	3134	3545	3861
70°	2990	3523	3952
75°	2753	3531	4098
80°	2411	3602	4511
85°	1842	4151	5399

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5987 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	3.1
10°-20°	662.9	8.9
20°-30°	1007.1	13.6
30°-40°	1219.9	16.5
40°-50°	1283.4	17.3
50°-60°	1193.3	16.1
60°-70°	960.8	13.0
70°-80°	622.4	8.4
80°-90°	233.4	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°	1900.6	25.6
0°-40°	3120.6	42.1
0°-60°	5597.3	75.5
0°-90°	7414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2429	2429	2429	2429	2429	
5°	2436	2432	2418	2432	2429	231
15°	2335	2344	2338	2367	2362	662
25°	2168	2166	2172	2209	2218	999
35°	1905	1919	1944	1978	1996	1194
45°	1602	1623	1662	1698	1717	1235
55°	1257	1289	1337	1390	1408	1121
65°	865	904	978	1037	1065	860
75°	465	511	597	666	692	494
85°	105	154	236	295	307	128
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2429.0	2429.0	2429.0	2429.0	2429.0
2.5°	2434.3	2434.3	2405.9	2436.1	2423.7
5°	2436.1	2432.5	2418.3	2432.5	2429.0
7.5°	2411.2	2414.8	2402.4	2420.1	2432.5
10°	2393.5	2397.0	2379.3	2407.7	2407.7
12.5°	2370.4	2374.0	2366.8	2393.5	2388.2
15°	2334.9	2343.8	2338.4	2366.8	2361.5
17.5°	2315.4	2308.3	2302.9	2324.2	2334.9
20°	2279.8	2263.9	2263.9	2292.3	2299.4
22.5°	2223.0	2217.7	2219.5	2255.0	2247.9
25°	2168.0	2166.2	2171.5	2208.8	2217.7
27.5°	2112.9	2109.4	2125.4	2160.9	2168.0
30°	2038.4	2045.5	2066.8	2105.8	2114.7
32.5°	1976.2	1988.7	2008.2	2045.5	2056.1
35°	1905.2	1919.4	1944.3	1978.0	1995.8
37.5°	1843.1	1851.9	1878.6	1910.5	1931.8
40°	1756.0	1779.1	1809.3	1855.5	1860.8
42.5°	1677.9	1701.0	1740.1	1789.8	1784.5
45°	1601.6	1622.9	1661.9	1697.5	1717.0
47.5°	1519.9	1539.4	1590.9	1633.5	1647.7
50°	1434.7	1459.5	1503.9	1548.3	1564.3
52.5°	1338.8	1365.4	1422.2	1470.2	1493.3
55°	1257.1	1289.1	1337.0	1390.3	1408.0
57.5°	1166.6	1193.2	1251.8	1305.1	1322.8
60°	1065.3	1097.3	1157.7	1214.5	1241.1
62.5°	967.7	1003.2	1067.1	1125.7	1147.0
65°	864.7	903.8	978.3	1036.9	1065.3
67.5°	775.9	807.9	880.7	946.4	976.6
70°	667.6	710.2	786.6	859.4	882.5
72.5°	571.7	609.0	688.9	761.7	790.1
75°	465.2	511.4	596.6	665.8	692.5
77.5°	367.5	415.5	500.7	573.5	603.7
80°	273.4	319.6	408.4	483.0	511.4
82.5°	184.7	230.8	319.6	392.4	424.4
85°	104.8	154.5	236.2	294.7	307.2
87.5°	46.2	88.8	133.2	159.8	170.5
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	16.25	17.93	16.61	18.24	18.56	16.92	18.61	17.29	18.92	19.23
	3H	18.10	19.63	18.48	19.96	20.32	19.14	20.67	19.52	21.00	21.35
	4H	18.79	20.23	19.19	20.58	20.95	20.11	21.55	20.50	21.90	22.27
	6H	19.28	20.62	19.69	20.99	21.38	21.00	22.34	21.41	22.70	23.09
	8H	19.43	20.71	19.85	21.10	21.50	21.40	22.69	21.82	23.07	23.47
	12H	19.52	20.75	19.95	21.13	21.56	21.76	22.99	22.19	23.37	23.80
4H	2H	17.04	18.49	17.44	18.83	19.21	17.56	19.01	17.96	19.35	19.73
	3H	19.13	20.35	19.54	20.75	21.15	20.02	21.24	20.43	21.64	22.04
	4H	19.95	21.06	20.38	21.47	21.91	21.15	22.26	21.58	22.67	23.11
	6H	20.57	21.55	21.03	21.99	22.44	22.22	23.20	22.67	23.64	24.09
	8H	20.77	21.69	21.23	22.13	22.59	22.71	23.63	23.17	24.07	24.53
	12H	20.91	21.73	21.38	22.21	22.67	23.16	23.99	23.64	24.46	24.93
8H	4H	20.46	21.37	20.92	21.81	22.28	21.49	22.41	21.95	22.85	23.31
	6H	21.24	22.01	21.73	22.50	22.97	22.74	23.51	23.23	24.00	24.47
	8H	21.53	22.22	22.03	22.72	23.20	23.37	24.06	23.87	24.56	25.04
	12H	21.74	22.36	22.25	22.85	23.40	23.98	24.59	24.48	25.08	25.64
12H	4H	20.57	21.39	21.04	21.87	22.33	21.53	22.36	22.01	22.83	23.30
	6H	21.41	22.10	21.92	22.61	23.09	22.82	23.51	23.32	24.01	24.50
	8H	21.78	22.39	22.28	22.88	23.44	23.52	24.14	24.03	24.62	25.18