

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: P1588893

Luminaire Tested: 24CZSP-A-80-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588893
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-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

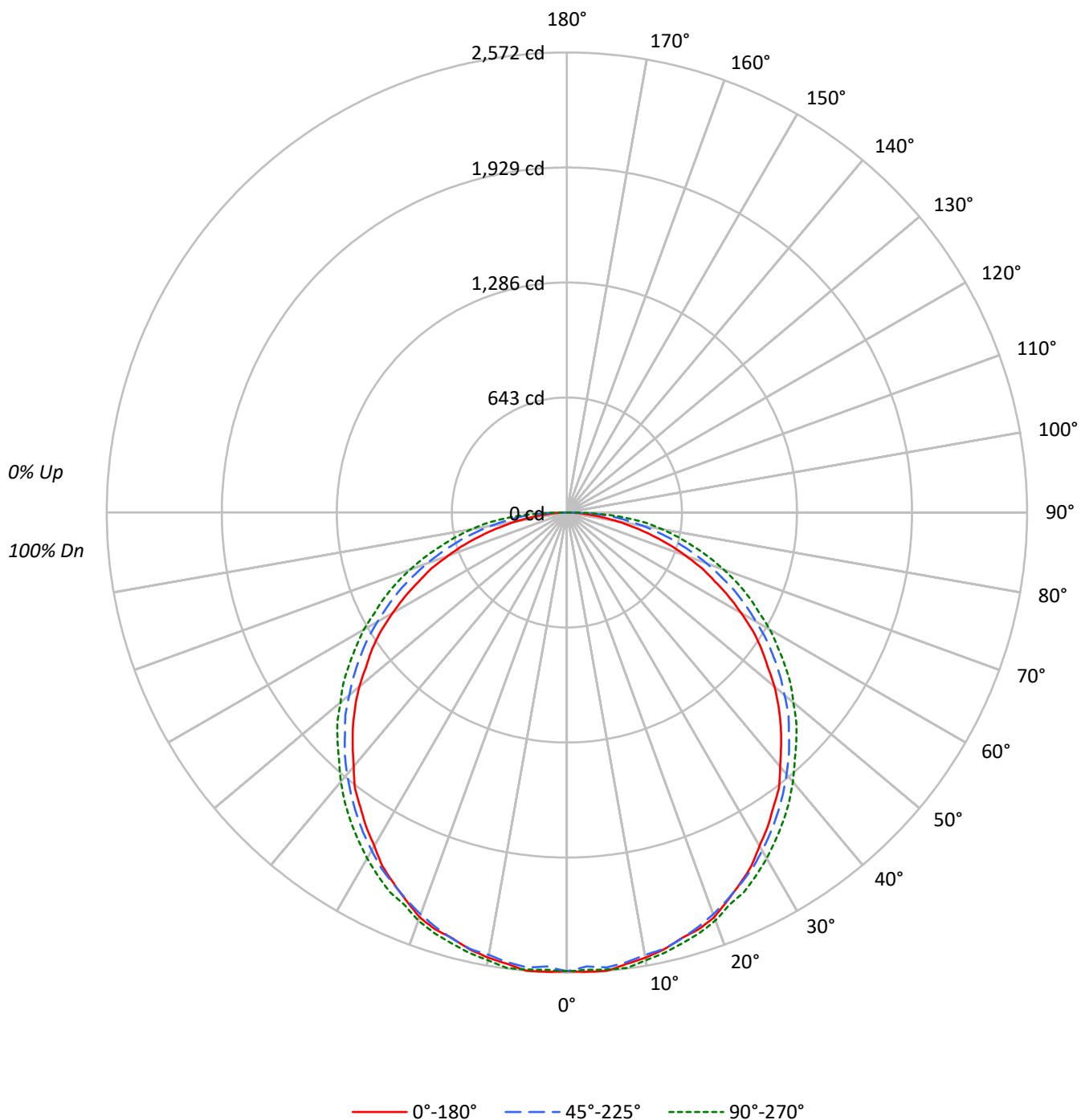
Lumens per Lamp: N/A
Luminaire Lumens: 7828.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3928	3928	3928
5°	3955	3926	3943
10°	3930	3907	3954
15°	3909	3915	3954
20°	3924	3896	3957
25°	3868	3875	3957
30°	3806	3859	3949
35°	3761	3838	3940
40°	3707	3819	3928
45°	3663	3801	3927
50°	3609	3784	3935
55°	3544	3770	3970
60°	3446	3744	4014
65°	3309	3744	4076
70°	3157	3719	4172
75°	2907	3728	4326
80°	2546	3803	4762
85°	1944	4381	5699

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	3.1
10°-20°	700.0	8.9
20°-30°	1063.3	13.6
30°-40°	1288.0	16.5
40°-50°	1355.1	17.3
50°-60°	1260.0	16.1
60°-70°	1014.5	13.0
70°-80°	657.2	8.4
80°-90°	246.4	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°	2006.8	25.6
0°-40°	3294.8	42.1
0°-60°	5909.9	75.5
0°-90°	7828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2565	2565	2565	2565	2565	
5°	2572	2568	2553	2568	2565	244
15°	2465	2475	2469	2499	2493	698
25°	2289	2287	2293	2332	2342	1055
35°	2012	2027	2053	2088	2107	1260
45°	1691	1714	1755	1792	1813	1304
55°	1327	1361	1412	1468	1487	1184
65°	913	954	1033	1095	1125	908
75°	491	540	630	703	731	522
85°	111	163	249	311	324	136
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2564.6	2564.6	2564.6	2564.6	2564.6
2.5°	2570.3	2570.3	2540.3	2572.1	2559.0
5°	2572.1	2568.4	2553.4	2568.4	2564.6
7.5°	2545.9	2549.6	2536.5	2555.3	2568.4
10°	2527.1	2530.9	2512.1	2542.1	2542.1
12.5°	2502.8	2506.5	2499.0	2527.1	2521.5
15°	2465.3	2474.6	2469.0	2499.0	2493.4
17.5°	2444.6	2437.1	2431.5	2454.0	2465.3
20°	2407.2	2390.3	2390.3	2420.3	2427.8
22.5°	2347.2	2341.5	2343.4	2380.9	2373.4
25°	2289.0	2287.2	2292.8	2332.2	2341.5
27.5°	2230.9	2227.2	2244.1	2281.5	2289.0
30°	2152.2	2159.7	2182.2	2223.4	2232.8
32.5°	2086.6	2099.7	2120.3	2159.7	2170.9
35°	2011.6	2026.6	2052.8	2088.4	2107.2
37.5°	1946.0	1955.3	1983.5	2017.2	2039.7
40°	1854.1	1878.5	1910.3	1959.1	1964.7
42.5°	1771.6	1796.0	1837.2	1889.7	1884.1
45°	1691.0	1713.5	1754.7	1792.2	1812.9
47.5°	1604.8	1625.4	1679.8	1724.8	1739.7
50°	1514.8	1541.0	1587.9	1634.8	1651.6
52.5°	1413.5	1441.7	1501.7	1552.3	1576.6
55°	1327.3	1361.1	1411.7	1467.9	1486.7
57.5°	1231.7	1259.8	1321.7	1377.9	1396.7
60°	1124.8	1158.6	1222.3	1282.3	1310.4
62.5°	1021.7	1059.2	1126.7	1188.6	1211.1
65°	913.0	954.2	1033.0	1094.8	1124.8
67.5°	819.3	853.0	929.9	999.2	1031.1
70°	704.9	749.9	830.5	907.4	931.7
72.5°	603.7	643.0	727.4	804.3	834.3
75°	491.2	539.9	629.9	703.0	731.1
77.5°	388.1	438.7	528.7	605.5	637.4
80°	288.7	337.5	431.2	509.9	539.9
82.5°	195.0	243.7	337.5	414.3	448.1
85°	110.6	163.1	249.3	311.2	324.3
87.5°	48.7	93.7	140.6	168.7	180.0
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	16.44	18.12	16.80	18.43	18.75	17.11	18.79	17.48	19.11	19.42
	3H	18.29	19.82	18.67	20.15	20.51	19.33	20.86	19.71	21.18	21.54
	4H	18.98	20.42	19.38	20.77	21.14	20.29	21.74	20.69	22.08	22.46
	6H	19.47	20.81	19.88	21.18	21.57	21.19	22.53	21.60	22.89	23.28
	8H	19.62	20.90	20.04	21.29	21.69	21.59	22.87	22.01	23.26	23.66
	12H	19.71	20.94	20.14	21.32	21.75	21.95	23.18	22.38	23.56	23.99
4H	2H	17.23	18.68	17.63	19.02	19.40	17.75	19.19	18.15	19.54	19.92
	3H	19.32	20.54	19.73	20.94	21.33	20.21	21.43	20.62	21.83	22.23
	4H	20.14	21.25	20.57	21.66	22.09	21.34	22.45	21.77	22.86	23.30
	6H	20.76	21.74	21.22	22.18	22.63	22.41	23.39	22.86	23.82	24.28
	8H	20.96	21.88	21.42	22.32	22.78	22.90	23.82	23.36	24.26	24.72
	12H	21.10	21.92	21.57	22.40	22.86	23.35	24.18	23.83	24.65	25.12
8H	4H	20.65	21.56	21.10	22.00	22.47	21.68	22.60	22.14	23.04	23.50
	6H	21.43	22.20	21.92	22.68	23.16	22.93	23.70	23.42	24.18	24.66
	8H	21.72	22.41	22.22	22.91	23.39	23.56	24.25	24.06	24.75	25.23
	12H	21.93	22.55	22.44	23.03	23.59	24.17	24.78	24.67	25.27	25.82
12H	4H	20.75	21.58	21.23	22.05	22.52	21.72	22.55	22.20	23.02	23.49
	6H	21.60	22.29	22.10	22.79	23.28	23.01	23.70	23.51	24.20	24.68
	8H	21.97	22.58	22.47	23.07	23.63	23.71	24.32	24.22	24.81	25.37