

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: P1588562

Luminaire Tested: 24CZSP-80-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588562
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-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

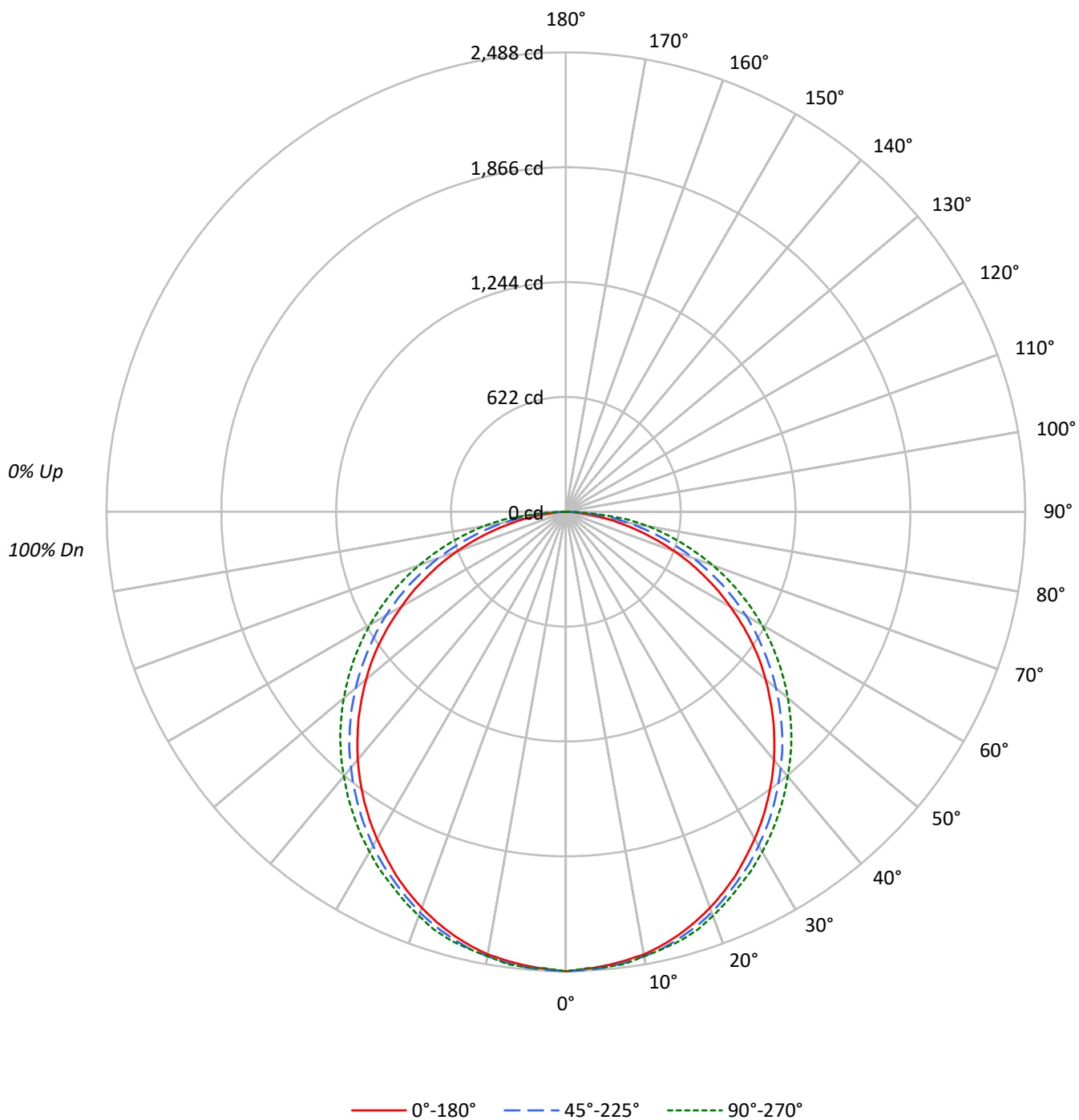
Lumens per Lamp: N/A
Luminaire Lumens: 7265.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3811	3811	3811
5°	3794	3809	3806
10°	3786	3803	3801
15°	3759	3789	3812
20°	3721	3765	3796
25°	3675	3726	3772
30°	3617	3693	3761
35°	3565	3657	3750
40°	3506	3621	3739
45°	3439	3584	3743
50°	3365	3540	3741
55°	3278	3491	3746
60°	3155	3453	3755
65°	3010	3386	3767
70°	2806	3291	3784
75°	2500	3160	3820
80°	2067	3009	4007
85°	1344	2717	3502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.2
10°-20°	673.9	9.3
20°-30°	1016.3	14.0
30°-40°	1224.1	16.8
40°-50°	1278.4	17.6
50°-60°	1174.1	16.2
60°-70°	924.7	12.7
70°-80°	567.3	7.8
80°-90°	170.7	2.3
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°	1925.6	26.5
0°-40°	3149.7	43.4
0°-60°	5602.2	77.1
0°-90°	7265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2488	2488	2488	2488	2488	
5°	2468	2471	2477	2485	2476	234
15°	2370	2375	2390	2404	2404	668
25°	2174	2179	2205	2232	2232	1001
35°	1907	1916	1956	1996	2005	1193
45°	1588	1605	1655	1712	1728	1224
55°	1228	1250	1307	1380	1403	1096
65°	830	859	934	1012	1039	822
75°	422	456	534	618	646	448
85°	76	105	155	196	199	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2478.9	2483.7	2485.3	2486.9	2475.7
5°	2467.7	2470.9	2477.3	2485.3	2475.7
7.5°	2451.8	2455.0	2463.0	2474.1	2469.3
10°	2434.3	2435.8	2445.4	2453.4	2443.8
12.5°	2405.6	2410.3	2421.5	2427.9	2424.7
15°	2370.5	2375.3	2389.6	2404.0	2404.0
17.5°	2329.0	2335.4	2353.0	2372.1	2373.7
20°	2282.8	2287.6	2309.9	2329.0	2329.0
22.5°	2230.2	2236.6	2258.9	2279.6	2282.8
25°	2174.4	2179.2	2204.7	2231.8	2231.8
27.5°	2109.1	2118.6	2150.5	2177.6	2184.0
30°	2045.3	2053.3	2088.3	2121.8	2126.6
32.5°	1978.3	1987.9	2024.6	2061.2	2069.2
35°	1906.6	1916.2	1956.0	1995.9	2005.4
37.5°	1831.7	1842.8	1884.3	1930.5	1940.1
40°	1753.6	1766.3	1810.9	1860.4	1869.9
42.5°	1670.7	1688.2	1736.0	1787.0	1801.4
45°	1587.8	1605.3	1654.7	1712.1	1728.1
47.5°	1500.1	1520.8	1571.8	1632.4	1649.9
50°	1412.4	1433.1	1485.7	1551.1	1570.2
52.5°	1323.1	1343.9	1398.1	1466.6	1487.3
55°	1227.5	1249.8	1307.2	1380.5	1402.8
57.5°	1128.7	1157.3	1217.9	1292.8	1315.2
60°	1029.8	1058.5	1127.1	1200.4	1225.9
62.5°	932.6	959.7	1029.8	1107.9	1135.0
65°	830.5	859.2	934.2	1012.3	1039.4
67.5°	730.1	758.8	833.7	915.0	943.7
70°	626.5	658.4	734.9	816.2	844.9
72.5°	522.9	556.4	634.5	717.4	744.5
75°	422.4	455.9	534.0	618.5	645.6
77.5°	323.6	360.3	436.8	522.9	548.4
80°	234.3	269.4	341.1	425.6	454.3
82.5°	149.8	180.1	251.9	331.6	352.3
85°	76.5	105.2	154.6	196.1	199.3
87.5°	23.9	33.5	51.0	76.5	78.1
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	16.13	17.79	16.49	18.10	18.42	16.96	18.62	17.32	18.93	19.25
	3H	17.88	19.39	18.26	19.72	20.08	19.07	20.58	19.45	20.91	21.27
	4H	18.50	19.92	18.90	20.27	20.65	19.96	21.38	20.36	21.73	22.11
	6H	18.91	20.23	19.32	20.60	20.99	20.74	22.06	21.15	22.43	22.82
	8H	19.02	20.28	19.44	20.67	21.07	21.06	22.33	21.49	22.71	23.11
	12H	19.07	20.28	19.50	20.66	21.09	21.27	22.49	21.70	22.87	23.30
4H	2H	16.90	18.32	17.30	18.67	19.04	17.54	18.97	17.94	19.31	19.69
	3H	18.88	20.07	19.28	20.47	20.87	19.90	21.10	20.31	21.49	21.89
	4H	19.61	20.70	20.04	21.11	21.55	20.95	22.04	21.38	22.45	22.89
	6H	20.14	21.09	20.59	21.53	21.99	21.90	22.86	22.36	23.30	23.75
	8H	20.29	21.18	20.75	21.62	22.08	22.30	23.19	22.76	23.63	24.10
	12H	20.37	21.17	20.85	21.65	22.12	22.58	23.38	23.06	23.86	24.32
8H	4H	20.07	20.96	20.53	21.40	21.87	21.24	22.13	21.70	22.57	23.04
	6H	20.73	21.48	21.22	21.96	22.44	22.35	23.10	22.84	23.58	24.06
	8H	20.94	21.61	21.45	22.12	22.60	22.86	23.53	23.37	24.04	24.52
	12H	21.08	21.67	21.59	22.16	22.72	23.25	23.84	23.76	24.33	24.89
12H	4H	20.16	20.96	20.64	21.44	21.91	21.27	22.07	21.74	22.54	23.01
	6H	20.86	21.53	21.37	22.04	22.52	22.40	23.07	22.91	23.57	24.06
	8H	21.14	21.73	21.65	22.22	22.78	22.98	23.57	23.48	24.06	24.62