

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: P1588532

Luminaire Tested: 24CZSP-75VHE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588532
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-75VHE-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

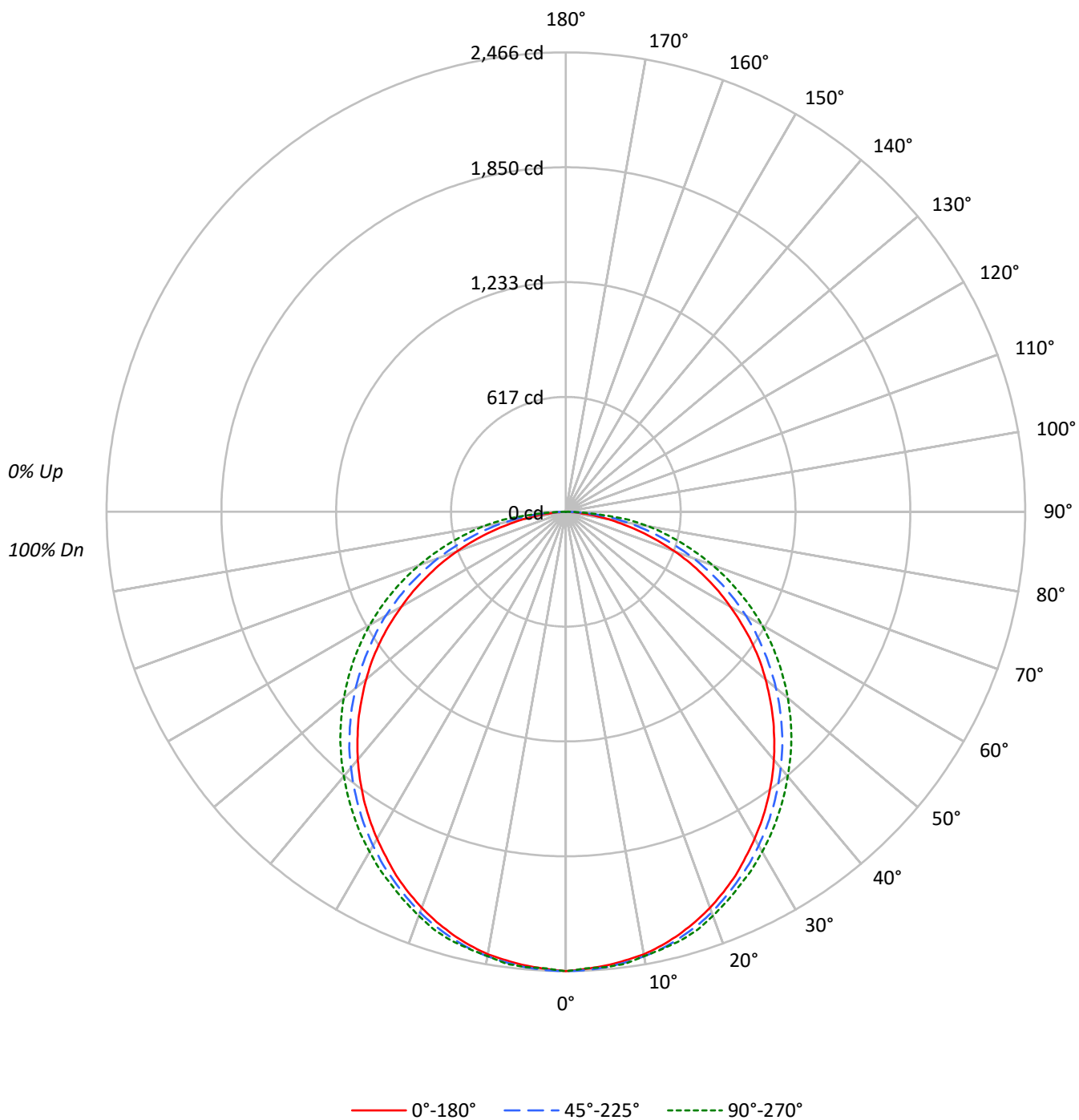
Lumens per Lamp: N/A
Luminaire Lumens: 7200.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.9
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

TEST NUMBER: P1588532

CATALOG NUMBER: 24CZSP-75VHE-L830-S

Luminous Intensity Polar Plot



TEST NUMBER: P1588532

CATALOG NUMBER: 24CZSP-75VHE-L830-S

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°	3777	3777	3777
5°	3760	3775	3772
10°	3752	3769	3767
15°	3725	3755	3778
20°	3688	3731	3762
25°	3642	3693	3738
30°	3585	3660	3727
35°	3533	3625	3716
40°	3475	3588	3705
45°	3408	3552	3710
50°	3335	3508	3708
55°	3248	3459	3713
60°	3126	3422	3722
65°	2983	3355	3733
70°	2780	3261	3750
75°	2478	3132	3787
80°	2048	2982	3972
85°	1332	2692	3471

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4098 cd/sqm

TEST NUMBER: P1588532

CATALOG NUMBER: 24CZSP-75VHE-L830-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	3.2
10°-20°	667.9	9.3
20°-30°	1007.2	14.0
30°-40°	1213.2	16.8
40°-50°	1267.0	17.6
50°-60°	1163.6	16.2
60°-70°	916.5	12.7
70°-80°	562.3	7.8
80°-90°	169.2	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°	1908.3	26.5
0°-40°	3121.5	43.4
0°-60°	5552.1	77.1
0°-90°	7200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2446	2449	2455	2463	2454	232
15°	2349	2354	2368	2382	2382	662
25°	2155	2160	2185	2212	2212	992
35°	1890	1899	1938	1978	1988	1182
45°	1574	1591	1640	1697	1713	1213
55°	1216	1239	1296	1368	1390	1086
65°	823	852	926	1003	1030	814
75°	419	452	529	613	640	444
85°	76	104	153	194	198	99
90°	0	0	0	0	0	

TEST NUMBER: P1588532

CATALOG NUMBER: 24CZSP-75VHE-L830-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2466.2	2466.2	2466.2	2466.2	2466.2
2.5°	2456.7	2461.5	2463.0	2464.6	2453.6
5°	2445.7	2448.8	2455.1	2463.0	2453.6
7.5°	2429.9	2433.0	2440.9	2452.0	2447.2
10°	2412.5	2414.1	2423.5	2431.4	2422.0
12.5°	2384.0	2388.8	2399.8	2406.2	2403.0
15°	2349.3	2354.0	2368.2	2382.5	2382.5
17.5°	2308.2	2314.5	2331.9	2350.9	2352.4
20°	2262.4	2267.1	2289.2	2308.2	2308.2
22.5°	2210.3	2216.6	2238.7	2259.2	2262.4
25°	2155.0	2159.7	2185.0	2211.8	2211.8
27.5°	2090.2	2099.7	2131.3	2158.1	2164.4
30°	2027.0	2034.9	2069.6	2102.8	2107.6
32.5°	1960.6	1970.1	2006.4	2042.8	2050.7
35°	1889.5	1899.0	1938.5	1978.0	1987.5
37.5°	1815.3	1826.3	1867.4	1913.2	1922.7
40°	1737.9	1750.5	1794.7	1843.7	1853.2
42.5°	1655.7	1673.1	1720.5	1771.0	1785.3
45°	1573.6	1590.9	1639.9	1696.8	1712.6
47.5°	1486.7	1507.2	1557.8	1617.8	1635.2
50°	1399.8	1420.3	1472.4	1537.2	1556.2
52.5°	1311.3	1331.8	1385.6	1453.5	1474.0
55°	1216.5	1238.6	1295.5	1368.2	1390.3
57.5°	1118.6	1147.0	1207.0	1281.3	1303.4
60°	1020.6	1049.0	1117.0	1189.6	1214.9
62.5°	924.2	951.1	1020.6	1098.0	1124.9
65°	823.1	851.6	925.8	1003.2	1030.1
67.5°	723.6	752.0	826.3	906.9	935.3
70°	620.9	652.5	728.3	808.9	837.3
72.5°	518.2	551.4	628.8	710.9	737.8
75°	418.7	451.8	529.3	613.0	639.9
77.5°	320.7	357.1	432.9	518.2	543.5
80°	232.2	267.0	338.1	421.8	450.3
82.5°	148.5	178.5	249.6	328.6	349.2
85°	75.8	104.3	153.2	194.3	197.5
87.5°	23.7	33.2	50.6	75.8	77.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588532

CATALOG NUMBER: 24CZSP-75VHE-L830-S

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	16.10	17.76	16.46	18.07	18.39	16.93	18.59	17.29	18.90	19.22
	3H	17.85	19.36	18.23	19.68	20.04	19.04	20.55	19.42	20.88	21.24
	4H	18.47	19.89	18.87	20.24	20.61	19.93	21.35	20.33	21.70	22.08
	6H	18.88	20.20	19.29	20.56	20.96	20.71	22.03	21.12	22.40	22.79
	8H	18.99	20.25	19.41	20.64	21.04	21.03	22.30	21.46	22.68	23.08
	12H	19.04	20.25	19.47	20.63	21.06	21.24	22.45	21.67	22.84	23.26
4H	2H	16.87	18.29	17.26	18.64	19.01	17.51	18.94	17.91	19.28	19.66
	3H	18.84	20.04	19.25	20.44	20.84	19.87	21.07	20.28	21.46	21.86
	4H	19.58	20.67	20.01	21.08	21.51	20.92	22.01	21.35	22.42	22.85
	6H	20.11	21.06	20.56	21.50	21.96	21.87	22.83	22.33	23.26	23.72
	8H	20.26	21.15	20.71	21.59	22.05	22.27	23.16	22.73	23.60	24.07
	12H	20.34	21.14	20.82	21.62	22.09	22.55	23.35	23.03	23.82	24.29
8H	4H	20.04	20.93	20.50	21.37	21.84	21.21	22.10	21.67	22.54	23.01
	6H	20.70	21.45	21.19	21.93	22.41	22.32	23.07	22.81	23.55	24.03
	8H	20.91	21.58	21.42	22.09	22.57	22.83	23.50	23.34	24.01	24.49
	12H	21.05	21.64	21.56	22.13	22.69	23.22	23.81	23.72	24.30	24.86
12H	4H	20.13	20.93	20.61	21.41	21.88	21.23	22.04	21.71	22.51	22.98
	6H	20.83	21.50	21.34	22.01	22.49	22.37	23.04	22.88	23.54	24.03
	8H	21.11	21.70	21.62	22.19	22.75	22.95	23.54	23.45	24.03	24.59