

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: P1588873

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-776-5)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-75VHE-L830
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 8000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

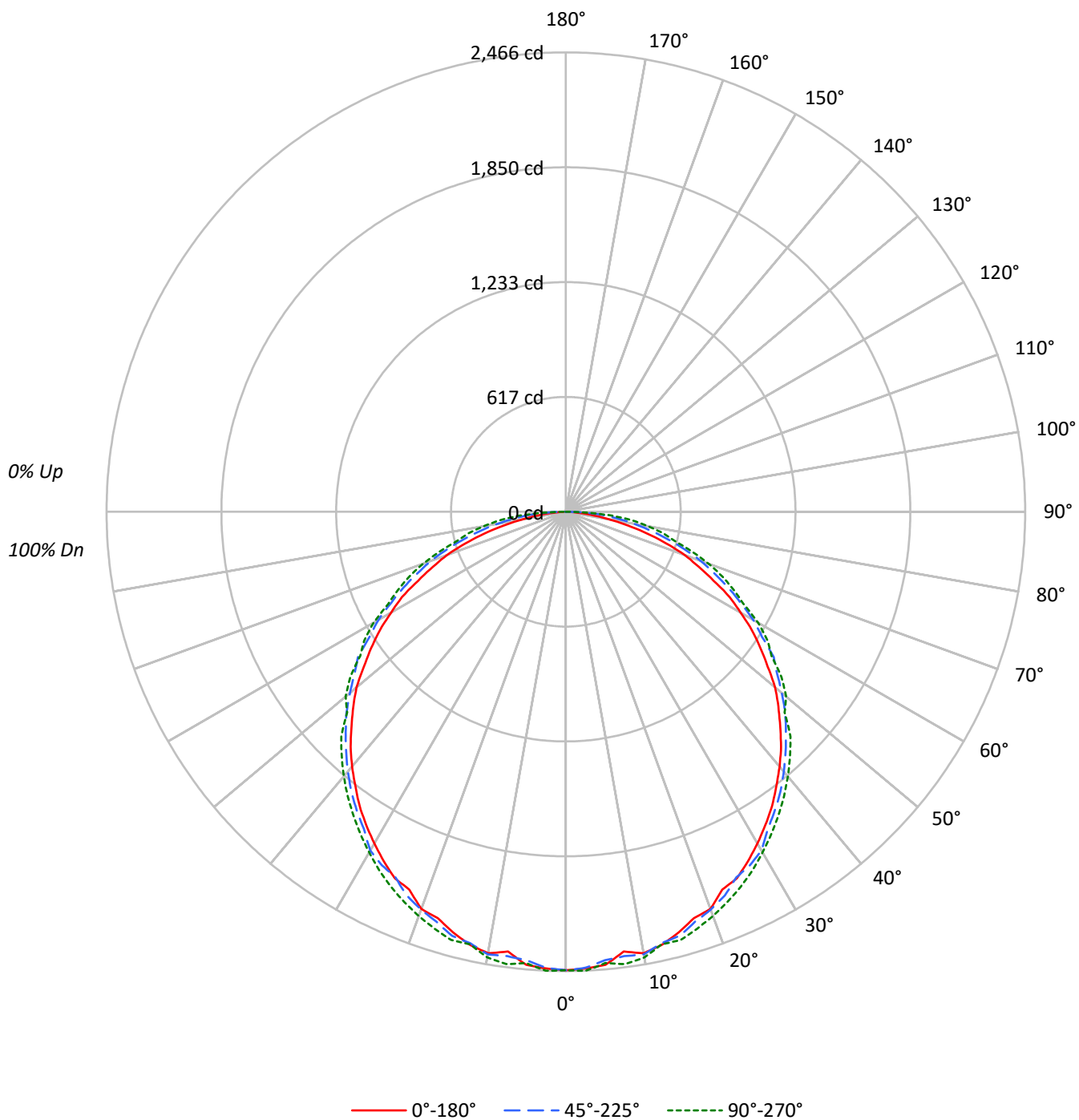
Lumens per Lamp: N/A
Luminaire Lumens: 7347.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: P1588873

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

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3769	3769	3769
5°	3753	3715	3739
10°	3742	3751	3778
15°	3707	3738	3774
20°	3698	3705	3764
25°	3669	3659	3754
30°	3636	3714	3735
35°	3609	3659	3719
40°	3569	3639	3707
45°	3524	3620	3693
50°	3496	3605	3677
55°	3408	3637	3600
60°	3321	3560	3652
65°	3171	3483	3603
70°	3041	3453	3654
75°	2693	3349	3580
80°	2126	3272	3960
85°	1300	3497	4516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 4516 cd/sqm

TEST NUMBER: P1588873

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	3.2
10°-20°	663.9	9.0
20°-30°	1011.5	13.8
30°-40°	1231.3	16.8
40°-50°	1291.0	17.6
50°-60°	1196.0	16.3
60°-70°	943.1	12.8
70°-80°	583.4	7.9
80°-90°	194.3	2.6
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°	1907.9	26.0
0°-40°	3139.2	42.7
0°-60°	5626.2	76.6
0°-90°	7347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2461	2461	2461	2461	2461	
5°	2441	2440	2416	2469	2432	230
15°	2338	2350	2357	2340	2380	660
25°	2171	2183	2165	2225	2221	998
35°	1930	1948	1957	1994	1989	1206
45°	1627	1657	1671	1690	1705	1257
55°	1276	1314	1362	1374	1348	1141
65°	875	909	961	997	994	871
75°	455	491	566	609	605	480
85°	74	126	199	242	257	99
90°	0	0	0	0	0	

TEST NUMBER: P1588873

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.1	2461.1	2461.1	2461.1	2461.1
2.5°	2454.1	2469.1	2450.1	2466.1	2466.1
5°	2441.1	2440.1	2416.1	2469.1	2432.1
7.5°	2381.1	2423.1	2406.1	2471.1	2449.1
10°	2406.1	2395.1	2412.1	2456.1	2429.1
12.5°	2381.1	2399.1	2372.1	2350.1	2378.1
15°	2338.1	2350.1	2357.1	2340.1	2380.1
17.5°	2287.1	2332.1	2308.1	2300.1	2346.1
20°	2269.1	2271.1	2273.1	2314.1	2309.1
22.5°	2195.1	2235.1	2230.1	2263.1	2267.1
25°	2171.1	2183.1	2165.1	2225.1	2221.1
27.5°	2116.1	2142.1	2139.1	2159.1	2170.1
30°	2056.1	2082.1	2100.1	2078.1	2112.1
32.5°	1994.1	2038.1	2018.1	2059.1	2052.1
35°	1930.1	1948.1	1957.1	1994.1	1989.1
37.5°	1856.1	1887.1	1892.1	1948.1	1924.1
40°	1785.1	1816.1	1820.1	1853.1	1854.1
42.5°	1710.1	1725.1	1746.1	1784.1	1781.1
45°	1627.1	1657.1	1671.1	1690.1	1705.1
47.5°	1547.1	1579.1	1597.1	1628.1	1593.1
50°	1467.1	1490.1	1513.1	1546.1	1543.1
52.5°	1366.1	1418.1	1429.1	1447.1	1459.1
55°	1276.1	1314.1	1362.1	1374.1	1348.1
57.5°	1185.1	1214.1	1249.1	1286.1	1283.1
60°	1084.1	1119.1	1162.1	1190.1	1192.1
62.5°	992.1	1016.1	1057.1	1098.1	1077.1
65°	875.0	909.0	961.0	997.1	994.1
67.5°	771.0	808.0	861.0	908.0	910.0
70°	679.0	699.0	771.0	807.0	816.0
72.5°	566.0	601.0	665.0	705.0	709.0
75°	455.0	491.0	566.0	609.0	605.0
77.5°	342.0	394.0	467.0	518.0	535.0
80°	241.0	288.0	371.0	421.0	449.0
82.5°	152.0	201.0	282.0	344.0	361.0
85°	74.0	126.0	199.0	242.0	257.0
87.5°	19.0	52.0	92.0	113.0	122.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588873

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

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	16.41	18.08	16.78	18.40	18.71	16.84	18.51	17.21	18.83	19.14
	3H	18.21	19.73	18.59	20.05	20.41	18.92	20.43	19.29	20.76	21.12
	4H	18.86	20.29	19.26	20.64	21.01	19.76	21.19	20.16	21.54	21.91
	6H	19.27	20.60	19.68	20.96	21.35	20.55	21.88	20.96	22.24	22.63
	8H	19.37	20.64	19.79	21.03	21.43	20.89	22.16	21.32	22.55	22.95
	12H	19.42	20.63	19.84	21.02	21.44	21.19	22.41	21.62	22.79	23.22
4H	2H	17.15	18.58	17.55	18.93	19.30	17.49	18.92	17.88	19.26	19.64
	3H	19.19	20.39	19.60	20.79	21.19	19.80	21.01	20.21	21.40	21.80
	4H	19.96	21.05	20.39	21.47	21.90	20.80	21.90	21.24	22.31	22.75
	6H	20.49	21.45	20.95	21.89	22.35	21.76	22.72	22.21	23.16	23.61
	8H	20.64	21.54	21.10	21.98	22.44	22.18	23.08	22.64	23.52	23.99
	12H	20.72	21.53	21.20	22.00	22.47	22.56	23.37	23.04	23.85	24.31
8H	4H	20.41	21.31	20.87	21.75	22.21	21.14	22.04	21.60	22.49	22.95
	6H	21.09	21.84	21.58	22.33	22.80	22.26	23.01	22.75	23.50	23.97
	8H	21.31	21.98	21.81	22.49	22.97	22.81	23.48	23.31	23.99	24.47
	12H	21.45	22.05	21.96	22.54	23.10	23.32	23.92	23.83	24.41	24.97
12H	4H	20.49	21.30	20.97	21.78	22.25	21.18	21.99	21.66	22.46	22.93
	6H	21.22	21.90	21.73	22.40	22.89	22.33	23.00	22.83	23.51	23.99
	8H	21.52	22.12	22.02	22.60	23.16	22.95	23.55	23.45	24.04	24.60