

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: P1588852

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588852
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-A-75-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

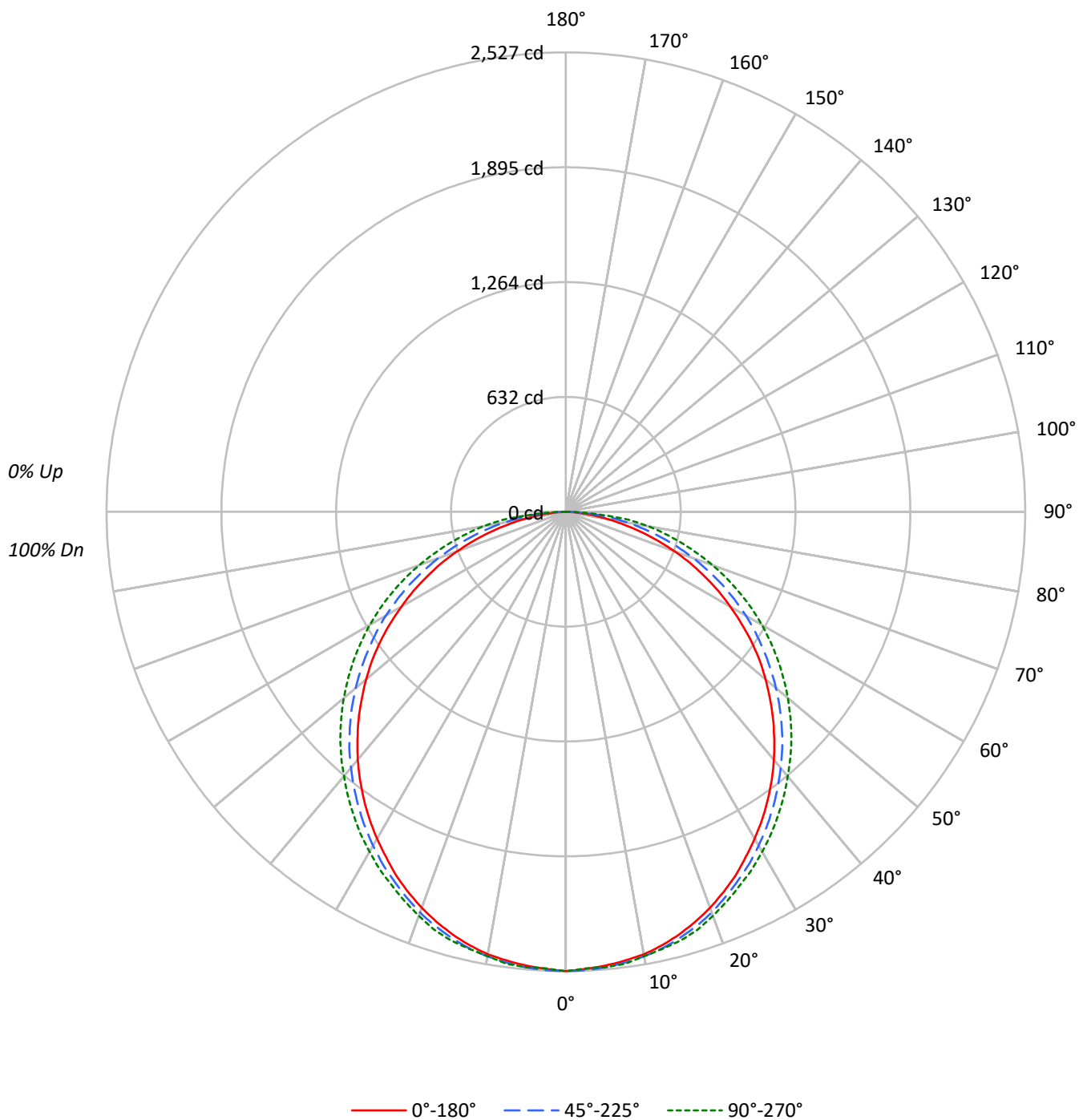
Lumens per Lamp: N/A
Luminaire Lumens: 7378.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 59.5
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°	3871	3871	3871
5°	3853	3868	3866
10°	3845	3862	3860
15°	3817	3848	3871
20°	3779	3823	3855
25°	3732	3784	3830
30°	3673	3751	3820
35°	3620	3714	3808
40°	3561	3677	3797
45°	3493	3640	3801
50°	3418	3595	3800
55°	3329	3545	3804
60°	3204	3506	3814
65°	3057	3438	3825
70°	2849	3342	3842
75°	2539	3209	3880
80°	2099	3056	4070
85°	1365	2759	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.0	3.2
10°-20°	684.4	9.3
20°-30°	1032.1	14.0
30°-40°	1243.2	16.8
40°-50°	1298.3	17.6
50°-60°	1192.4	16.2
60°-70°	939.1	12.7
70°-80°	576.1	7.8
80°-90°	173.4	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°	1955.5	26.5
0°-40°	3198.7	43.4
0°-60°	5689.4	77.1
0°-90°	7378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2527	2527	2527	2527	2527	
5°	2506	2509	2516	2524	2514	238
15°	2407	2412	2427	2441	2441	679
25°	2208	2213	2239	2266	2266	1016
35°	1936	1946	1986	2027	2037	1211
45°	1612	1630	1680	1739	1755	1243
55°	1247	1269	1328	1402	1425	1113
65°	844	873	949	1028	1056	834
75°	429	463	542	628	656	455
85°	78	107	157	199	202	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2527.2	2527.2	2527.2	2527.2	2527.2
2.5°	2517.4	2522.3	2523.9	2525.5	2514.2
5°	2506.1	2509.4	2515.8	2523.9	2514.2
7.5°	2489.9	2493.2	2501.3	2512.6	2507.7
10°	2472.1	2473.7	2483.5	2491.5	2481.8
12.5°	2443.0	2447.8	2459.2	2465.6	2462.4
15°	2407.4	2412.2	2426.8	2441.4	2441.4
17.5°	2365.3	2371.7	2389.6	2409.0	2410.6
20°	2318.3	2323.2	2345.8	2365.3	2365.3
22.5°	2264.9	2271.4	2294.0	2315.1	2318.3
25°	2208.2	2213.1	2239.0	2266.5	2266.5
27.5°	2141.9	2151.6	2183.9	2211.5	2217.9
30°	2077.1	2085.2	2120.8	2154.8	2159.7
32.5°	2009.1	2018.8	2056.1	2093.3	2101.4
35°	1936.2	1946.0	1986.4	2026.9	2036.6
37.5°	1860.2	1871.5	1913.6	1960.5	1970.2
40°	1780.8	1793.8	1839.1	1889.3	1899.0
42.5°	1696.6	1714.5	1763.0	1814.8	1829.4
45°	1612.5	1630.3	1680.5	1738.7	1754.9
47.5°	1523.4	1544.5	1596.3	1657.8	1675.6
50°	1434.4	1455.4	1508.9	1575.2	1594.7
52.5°	1343.7	1364.8	1419.8	1489.4	1510.5
55°	1246.6	1269.2	1327.5	1402.0	1424.7
57.5°	1146.2	1175.3	1236.9	1313.0	1335.6
60°	1045.8	1075.0	1144.6	1219.1	1245.0
62.5°	947.1	974.6	1045.8	1125.2	1152.7
65°	843.5	872.6	948.7	1028.0	1055.5
67.5°	741.5	770.6	846.7	929.3	958.4
70°	636.2	668.6	746.3	828.9	858.0
72.5°	531.0	565.0	644.3	728.5	756.0
75°	429.0	463.0	542.3	628.1	655.7
77.5°	328.6	365.9	443.6	531.0	556.9
80°	238.0	273.6	346.5	432.3	461.4
82.5°	152.2	182.9	255.8	336.7	357.8
85°	77.7	106.8	157.0	199.1	202.4
87.5°	24.3	34.0	51.8	77.7	79.3
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	16.18	17.84	16.54	18.16	18.47	17.01	18.67	17.38	18.99	19.30
	3H	17.94	19.44	18.31	19.77	20.13	19.13	20.63	19.50	20.96	21.32
	4H	18.55	19.98	18.95	20.32	20.70	20.02	21.44	20.41	21.79	22.16
	6H	18.97	20.29	19.38	20.65	21.04	20.80	22.12	21.21	22.48	22.87
	8H	19.07	20.34	19.50	20.72	21.12	21.12	22.38	21.54	22.77	23.17
	12H	19.12	20.34	19.55	20.72	21.15	21.33	22.54	21.76	22.92	23.35
4H	2H	16.95	18.37	17.35	18.72	19.10	17.60	19.02	18.00	19.37	19.74
	3H	18.93	20.13	19.34	20.52	20.92	19.95	21.15	20.36	21.55	21.95
	4H	19.67	20.75	20.10	21.16	21.60	21.01	22.09	21.44	22.50	22.94
	6H	20.19	21.15	20.65	21.59	22.04	21.96	22.91	22.41	23.35	23.80
	8H	20.34	21.23	20.80	21.67	22.14	22.36	23.25	22.81	23.69	24.15
	12H	20.42	21.23	20.90	21.70	22.17	22.63	23.44	23.11	23.91	24.38
8H	4H	20.13	21.02	20.58	21.46	21.92	21.29	22.19	21.75	22.63	23.09
	6H	20.79	21.53	21.28	22.02	22.49	22.41	23.15	22.90	23.64	24.11
	8H	21.00	21.67	21.50	22.17	22.65	22.92	23.59	23.43	24.09	24.58
	12H	21.14	21.73	21.64	22.22	22.78	23.30	23.90	23.81	24.39	24.94
12H	4H	20.21	21.02	20.69	21.49	21.96	21.32	22.12	21.80	22.60	23.07
	6H	20.92	21.59	21.43	22.09	22.58	22.45	23.12	22.96	23.63	24.11
	8H	21.20	21.79	21.70	22.28	22.84	23.03	23.62	23.54	24.11	24.67