

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: P1588854

Luminaire Tested: 24CZSP-A-75-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588854
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 7500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

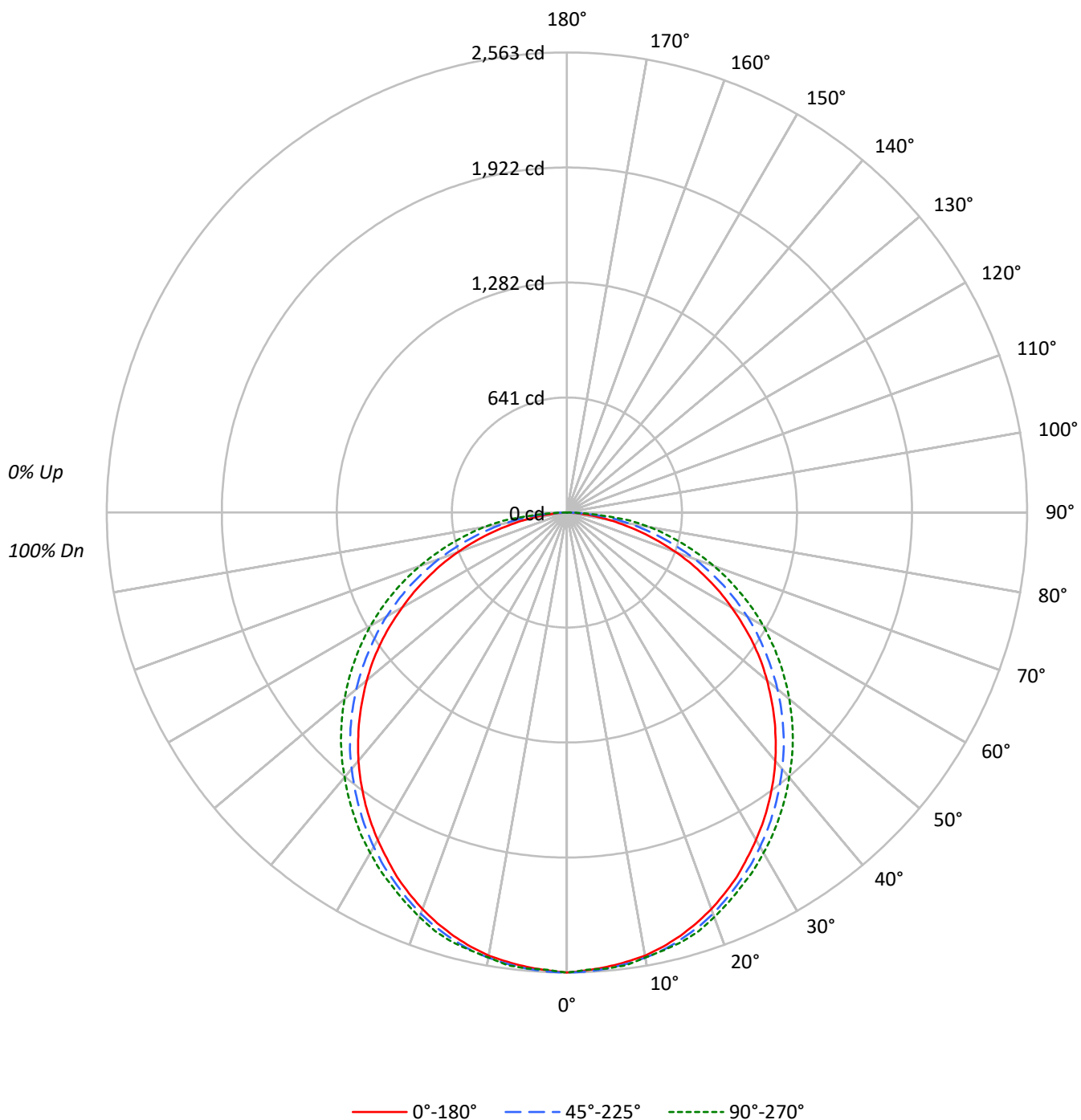
Lumens per Lamp: N/A
Luminaire Lumens: 7483.0 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	3926	3926	3926
5°	3908	3923	3921
10°	3899	3917	3915
15°	3872	3903	3926
20°	3832	3878	3910
25°	3785	3838	3885
30°	3726	3804	3874
35°	3672	3767	3862
40°	3611	3729	3851
45°	3542	3692	3855
50°	3466	3646	3854
55°	3376	3595	3858
60°	3249	3556	3868
65°	3100	3487	3880
70°	2890	3390	3897
75°	2575	3255	3935
80°	2129	3099	4128
85°	1385	2799	3606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	3.2
10°-20°	694.1	9.3
20°-30°	1046.8	14.0
30°-40°	1260.9	16.8
40°-50°	1316.8	17.6
50°-60°	1209.3	16.2
60°-70°	952.5	12.7
70°-80°	584.4	7.8
80°-90°	175.8	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°	1983.3	26.5
0°-40°	3244.2	43.4
0°-60°	5770.3	77.1
0°-90°	7483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2563	2563	2563	2563	2563	
5°	2542	2545	2552	2560	2550	242
15°	2442	2446	2461	2476	2476	689
25°	2240	2245	2271	2299	2299	1031
35°	1964	1974	2015	2056	2066	1228
45°	1635	1654	1704	1764	1780	1261
55°	1264	1287	1346	1422	1445	1129
65°	856	885	962	1043	1071	846
75°	435	470	550	637	665	461
85°	79	108	159	202	205	103
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2563.1	2563.1	2563.1	2563.1	2563.1
2.5°	2553.3	2558.2	2559.8	2561.5	2550.0
5°	2541.8	2545.1	2551.6	2559.8	2550.0
7.5°	2525.4	2528.6	2536.9	2548.3	2543.4
10°	2507.3	2508.9	2518.8	2527.0	2517.2
12.5°	2477.7	2482.7	2494.2	2500.7	2497.4
15°	2441.6	2446.5	2461.3	2476.1	2476.1
17.5°	2398.9	2405.5	2423.6	2443.3	2444.9
20°	2351.3	2356.2	2379.2	2398.9	2398.9
22.5°	2297.1	2303.7	2326.7	2348.0	2351.3
25°	2239.7	2244.6	2270.9	2298.8	2298.8
27.5°	2172.3	2182.2	2215.0	2242.9	2249.5
30°	2106.7	2114.9	2151.0	2185.5	2190.4
32.5°	2037.7	2047.5	2085.3	2123.1	2131.3
35°	1963.8	1973.7	2014.7	2055.8	2065.6
37.5°	1886.6	1898.1	1940.8	1988.4	1998.3
40°	1806.2	1819.3	1865.3	1916.2	1926.0
42.5°	1720.8	1738.9	1788.1	1840.7	1855.4
45°	1635.4	1653.5	1704.4	1763.5	1779.9
47.5°	1545.1	1566.4	1619.0	1681.4	1699.4
50°	1454.8	1476.1	1530.3	1597.6	1617.3
52.5°	1362.8	1384.2	1440.0	1510.6	1532.0
55°	1264.3	1287.3	1346.4	1422.0	1444.9
57.5°	1162.5	1192.1	1254.5	1331.6	1354.6
60°	1060.7	1090.3	1160.9	1236.4	1262.7
62.5°	960.6	988.5	1060.7	1141.2	1169.1
65°	855.5	885.0	962.2	1042.7	1070.6
67.5°	752.0	781.6	858.8	942.5	972.1
70°	645.3	678.1	757.0	840.7	870.2
72.5°	538.6	573.1	653.5	738.9	766.8
75°	435.1	469.6	550.1	637.1	665.0
77.5°	333.3	371.1	449.9	538.6	564.8
80°	241.4	277.5	351.4	438.4	468.0
82.5°	154.3	185.5	259.4	341.5	362.9
85°	78.8	108.4	159.3	202.0	205.2
87.5°	24.6	34.5	52.5	78.8	80.5
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	16.23	17.89	16.59	18.21	18.52	17.06	18.72	17.42	19.04	19.35
	3H	17.98	19.49	18.36	19.82	20.18	19.18	20.68	19.55	21.01	21.37
	4H	18.60	20.03	19.00	20.37	20.75	20.06	21.49	20.46	21.83	22.21
	6H	19.01	20.34	19.42	20.70	21.09	20.85	22.17	21.26	22.53	22.92
	8H	19.12	20.38	19.55	20.77	21.17	21.17	22.43	21.59	22.82	23.22
	12H	19.17	20.38	19.60	20.77	21.19	21.38	22.59	21.81	22.97	23.40
4H	2H	17.00	18.42	17.40	18.77	19.15	17.65	19.07	18.04	19.42	19.79
	3H	18.98	20.18	19.39	20.57	20.97	20.00	21.20	20.41	21.60	22.00
	4H	19.72	20.80	20.15	21.21	21.65	21.05	22.14	21.49	22.55	22.99
	6H	20.24	21.20	20.70	21.64	22.09	22.01	22.96	22.46	23.40	23.85
	8H	20.39	21.28	20.85	21.72	22.19	22.40	23.30	22.86	23.74	24.20
	12H	20.47	21.28	20.95	21.75	22.22	22.68	23.48	23.16	23.96	24.43
8H	4H	20.17	21.07	20.63	21.51	21.97	21.34	22.24	21.80	22.68	23.14
	6H	20.84	21.58	21.33	22.07	22.54	22.46	23.20	22.95	23.69	24.16
	8H	21.05	21.71	21.55	22.22	22.70	22.97	23.64	23.47	24.14	24.63
	12H	21.19	21.78	21.69	22.27	22.83	23.35	23.94	23.86	24.43	24.99
12H	4H	20.26	21.07	20.74	21.54	22.01	21.37	22.17	21.85	22.65	23.11
	6H	20.97	21.64	21.47	22.14	22.63	22.50	23.17	23.01	23.68	24.16
	8H	21.25	21.84	21.75	22.33	22.89	23.08	23.67	23.59	24.16	24.72