

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: P1588858

Luminaire Tested: 24CZSP-A-75-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588858
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-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

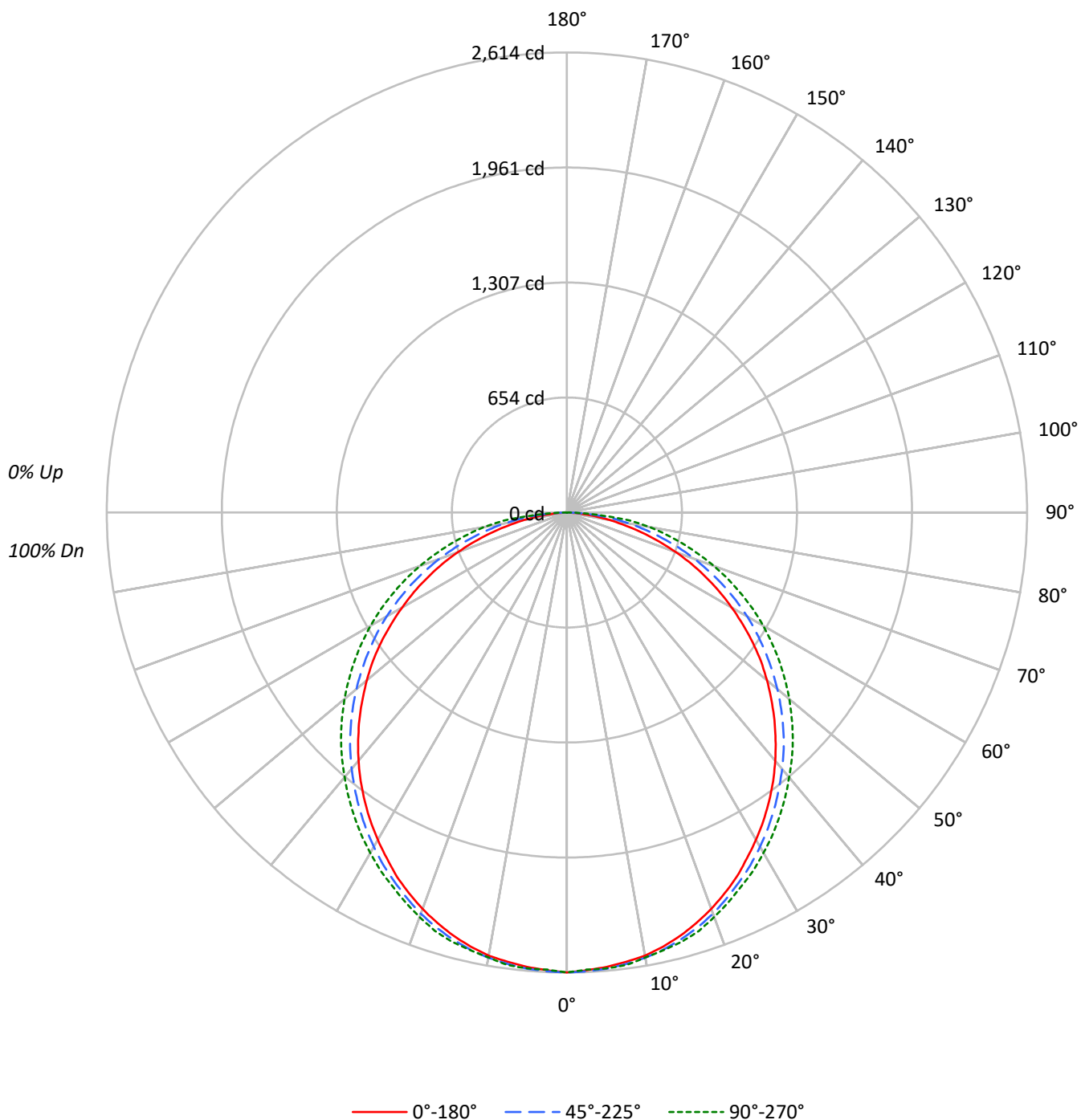
Lumens per Lamp: N/A
Luminaire Lumens: 7630.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4003	4003	4003
5°	3985	4000	3998
10°	3976	3994	3992
15°	3948	3980	4003
20°	3908	3954	3987
25°	3859	3913	3961
30°	3799	3879	3950
35°	3744	3841	3938
40°	3682	3803	3927
45°	3612	3764	3931
50°	3535	3718	3929
55°	3443	3666	3934
60°	3313	3626	3944
65°	3161	3556	3956
70°	2947	3456	3973
75°	2626	3319	4013
80°	2171	3160	4209
85°	1413	2854	3678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	3.2
10°-20°	707.7	9.3
20°-30°	1067.4	14.0
30°-40°	1285.6	16.8
40°-50°	1342.7	17.6
50°-60°	1233.1	16.2
60°-70°	971.2	12.7
70°-80°	595.8	7.8
80°-90°	179.3	2.4
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°	2022.3	26.5
0°-40°	3307.9	43.4
0°-60°	5883.7	77.1
0°-90°	7630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2614	2614	2614	2614	2614	
5°	2592	2595	2602	2610	2600	246
15°	2490	2495	2510	2525	2525	702
25°	2284	2289	2316	2344	2344	1051
35°	2002	2012	2054	2096	2106	1252
45°	1668	1686	1738	1798	1815	1286
55°	1289	1313	1373	1450	1473	1151
65°	872	902	981	1063	1092	863
75°	444	479	561	650	678	470
85°	80	110	162	206	209	105
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2613.5	2613.5	2613.5	2613.5	2613.5
2.5°	2603.4	2608.5	2610.1	2611.8	2600.1
5°	2591.7	2595.1	2601.8	2610.1	2600.1
7.5°	2575.0	2578.3	2586.7	2598.4	2593.4
10°	2556.6	2558.2	2568.3	2576.6	2566.6
12.5°	2526.4	2531.4	2543.2	2549.9	2546.5
15°	2489.6	2494.6	2509.7	2524.7	2524.7
17.5°	2446.1	2452.8	2471.2	2491.3	2492.9
20°	2397.5	2402.5	2426.0	2446.1	2446.1
22.5°	2342.3	2348.9	2372.4	2394.2	2397.5
25°	2283.7	2288.7	2315.5	2343.9	2343.9
27.5°	2215.0	2225.1	2258.5	2287.0	2293.7
30°	2148.0	2156.4	2193.2	2228.4	2233.4
32.5°	2077.7	2087.8	2126.3	2164.8	2173.2
35°	2002.4	2012.4	2054.3	2096.1	2106.2
37.5°	1923.7	1935.4	1978.9	2027.5	2037.5
40°	1841.7	1855.1	1901.9	1953.8	1963.9
42.5°	1754.6	1773.0	1823.2	1876.8	1891.9
45°	1667.5	1686.0	1737.9	1798.1	1814.9
47.5°	1575.5	1597.2	1650.8	1714.4	1732.8
50°	1483.4	1505.1	1560.4	1629.0	1649.1
52.5°	1389.6	1411.4	1468.3	1540.3	1562.1
55°	1289.2	1312.6	1372.9	1449.9	1473.3
57.5°	1185.4	1215.5	1279.1	1357.8	1381.2
60°	1081.6	1111.7	1183.7	1260.7	1287.5
62.5°	979.4	1007.9	1081.6	1163.6	1192.1
65°	872.3	902.4	981.1	1063.1	1091.6
67.5°	766.8	796.9	875.6	961.0	991.1
70°	658.0	691.5	771.8	857.2	887.3
72.5°	549.1	584.3	666.3	753.4	781.9
75°	443.7	478.8	560.9	649.6	678.1
77.5°	339.9	378.4	458.7	549.1	575.9
80°	246.1	282.9	358.3	447.0	477.2
82.5°	157.4	189.2	264.5	348.2	370.0
85°	80.4	110.5	162.4	205.9	209.3
87.5°	25.1	35.2	53.6	80.4	82.0
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	16.30	17.96	16.66	18.27	18.59	17.13	18.79	17.49	19.10	19.42
	3H	18.05	19.56	18.43	19.89	20.25	19.24	20.75	19.62	21.08	21.44
	4H	18.67	20.09	19.07	20.44	20.82	20.13	21.55	20.53	21.90	22.28
	6H	19.08	20.40	19.49	20.77	21.16	20.91	22.23	21.32	22.60	22.99
	8H	19.19	20.45	19.61	20.84	21.24	21.23	22.50	21.66	22.88	23.28
	12H	19.24	20.45	19.67	20.83	21.26	21.45	22.66	21.87	23.04	23.47
4H	2H	17.07	18.49	17.47	18.84	19.21	17.72	19.14	18.11	19.48	19.86
	3H	19.05	20.24	19.45	20.64	21.04	20.07	21.27	20.48	21.66	22.06
	4H	19.78	20.87	20.21	21.28	21.72	21.12	22.21	21.55	22.62	23.06
	6H	20.31	21.26	20.76	21.70	22.16	22.07	23.03	22.53	23.47	23.92
	8H	20.46	21.35	20.92	21.79	22.26	22.47	23.36	22.93	23.81	24.27
	12H	20.54	21.35	21.02	21.82	22.29	22.75	23.55	23.23	24.03	24.49
8H	4H	20.24	21.13	20.70	21.58	22.04	21.41	22.30	21.87	22.74	23.21
	6H	20.90	21.65	21.39	22.13	22.61	22.52	23.27	23.01	23.75	24.23
	8H	21.11	21.78	21.62	22.29	22.77	23.03	23.70	23.54	24.21	24.69
	12H	21.25	21.84	21.76	22.33	22.89	23.42	24.01	23.93	24.50	25.06
12H	4H	20.33	21.13	20.81	21.61	22.08	21.44	22.24	21.91	22.71	23.18
	6H	21.03	21.70	21.54	22.21	22.69	22.57	23.24	23.08	23.74	24.23
	8H	21.31	21.90	21.82	22.39	22.95	23.15	23.74	23.65	24.23	24.79