

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: P1588452

Luminaire Tested: 24CZSP-65-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588452
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-65-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 6000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

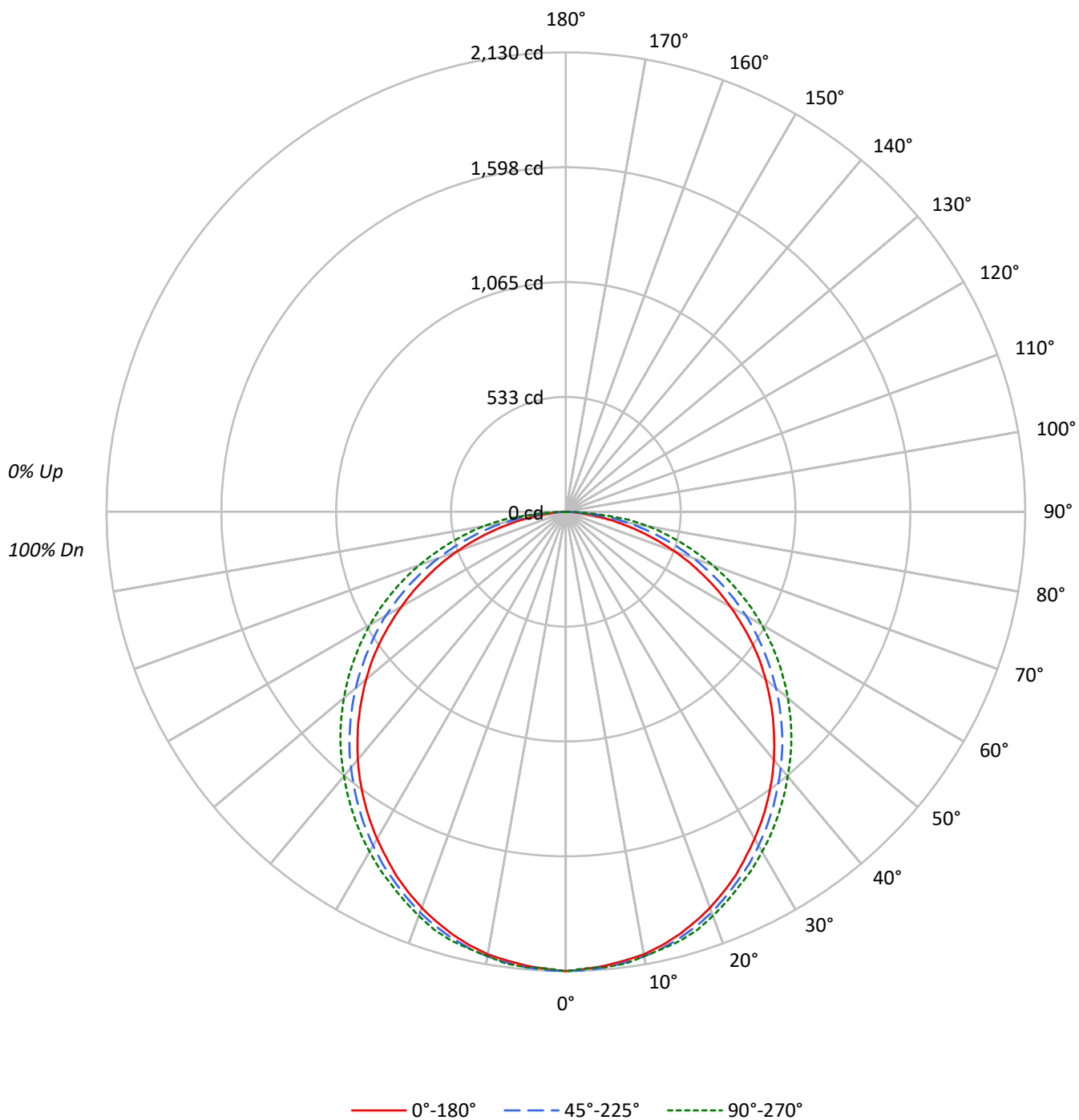
Lumens per Lamp: N/A
Luminaire Lumens: 6218.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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

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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°	3262	3262	3262
5°	3247	3260	3258
10°	3240	3255	3253
15°	3217	3243	3262
20°	3185	3222	3249
25°	3145	3189	3228
30°	3096	3161	3219
35°	3051	3130	3209
40°	3001	3099	3200
45°	2943	3068	3204
50°	2881	3030	3202
55°	2805	2988	3206
60°	2700	2955	3214
65°	2576	2897	3224
70°	2401	2817	3238
75°	2140	2705	3270
80°	1769	2576	3430
85°	1151	2325	2998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	3.2
10°-20°	576.8	9.3
20°-30°	869.9	14.0
30°-40°	1047.7	16.8
40°-50°	1094.2	17.6
50°-60°	1004.9	16.2
60°-70°	791.5	12.7
70°-80°	485.6	7.8
80°-90°	146.1	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°	1648.0	26.5
0°-40°	2695.8	43.4
0°-60°	4794.8	77.1
0°-90°	6218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6218.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2130	2130	2130	2130	2130	
5°	2112	2115	2120	2127	2119	201
15°	2029	2033	2045	2058	2058	572
25°	1861	1865	1887	1910	1910	857
35°	1632	1640	1674	1708	1716	1021
45°	1359	1374	1416	1465	1479	1048
55°	1051	1070	1119	1182	1201	938
65°	711	735	800	866	890	703
75°	362	390	457	529	553	383
85°	66	90	132	168	171	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2129.8	2129.8	2129.8	2129.8	2129.8
2.5°	2121.6	2125.7	2127.1	2128.5	2118.9
5°	2112.1	2114.8	2120.3	2127.1	2118.9
7.5°	2098.4	2101.2	2108.0	2117.6	2113.5
10°	2083.4	2084.8	2093.0	2099.8	2091.6
12.5°	2058.9	2063.0	2072.5	2078.0	2075.3
15°	2028.9	2033.0	2045.2	2057.5	2057.5
17.5°	1993.4	1998.8	2013.9	2030.2	2031.6
20°	1953.8	1957.9	1977.0	1993.4	1993.4
22.5°	1908.8	1914.3	1933.4	1951.1	1953.8
25°	1861.0	1865.1	1887.0	1910.2	1910.2
27.5°	1805.1	1813.3	1840.6	1863.8	1869.2
30°	1750.5	1757.3	1787.4	1816.0	1820.1
32.5°	1693.2	1701.4	1732.8	1764.2	1771.0
35°	1631.8	1640.0	1674.1	1708.2	1716.4
37.5°	1567.7	1577.2	1612.7	1652.3	1660.5
40°	1500.8	1511.8	1550.0	1592.3	1600.4
42.5°	1429.9	1444.9	1485.8	1529.5	1541.8
45°	1358.9	1374.0	1416.2	1465.4	1479.0
47.5°	1283.9	1301.6	1345.3	1397.1	1412.2
50°	1208.9	1226.6	1271.6	1327.6	1343.9
52.5°	1132.5	1150.2	1196.6	1255.2	1273.0
55°	1050.6	1069.7	1118.8	1181.6	1200.7
57.5°	966.0	990.6	1042.4	1106.5	1125.6
60°	881.4	906.0	964.6	1027.4	1049.2
62.5°	798.2	821.4	881.4	948.3	971.5
65°	710.9	735.4	799.5	866.4	889.6
67.5°	624.9	649.5	713.6	783.2	807.7
70°	536.2	563.5	629.0	698.6	723.1
72.5°	447.5	476.2	543.0	614.0	637.2
75°	361.6	390.2	457.1	529.4	552.6
77.5°	277.0	308.4	373.8	447.5	469.4
80°	200.6	230.6	292.0	364.3	388.9
82.5°	128.3	154.2	215.6	283.8	301.5
85°	65.5	90.1	132.3	167.8	170.6
87.5°	20.5	28.7	43.7	65.5	66.9
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	15.59	17.25	15.95	17.56	17.88	16.42	18.08	16.78	18.39	18.71
	3H	17.34	18.85	17.72	19.18	19.53	18.53	20.04	18.91	20.37	20.73
	4H	17.96	19.38	18.36	19.73	20.10	19.42	20.84	19.82	21.19	21.57
	6H	18.37	19.69	18.78	20.06	20.45	20.20	21.52	20.61	21.89	22.28
	8H	18.48	19.74	18.90	20.13	20.53	20.52	21.79	20.95	22.17	22.57
	12H	18.53	19.74	18.96	20.12	20.55	20.73	21.94	21.16	22.33	22.75
4H	2H	16.36	17.78	16.76	18.13	18.50	17.00	18.43	17.40	18.77	19.15
	3H	18.34	19.53	18.74	19.93	20.33	19.36	20.56	19.77	20.95	21.35
	4H	19.07	20.16	19.50	20.57	21.01	20.41	21.50	20.84	21.91	22.34
	6H	19.60	20.55	20.05	20.99	21.45	21.36	22.32	21.82	22.76	23.21
	8H	19.75	20.64	20.21	21.08	21.54	21.76	22.65	22.22	23.09	23.56
	12H	19.83	20.63	20.31	21.11	21.58	22.04	22.84	22.52	23.32	23.78
8H	4H	19.53	20.42	19.99	20.86	21.33	20.70	21.59	21.16	22.03	22.50
	6H	20.19	20.94	20.68	21.42	21.90	21.81	22.56	22.30	23.04	23.52
	8H	20.40	21.07	20.91	21.58	22.06	22.32	22.99	22.83	23.50	23.98
	12H	20.54	21.13	21.05	21.62	22.18	22.71	23.30	23.21	23.79	24.35
12H	4H	19.62	20.42	20.10	20.90	21.37	20.72	21.53	21.20	22.00	22.47
	6H	20.32	20.99	20.83	21.50	21.98	21.86	22.53	22.37	23.03	23.52
	8H	20.60	21.19	21.11	21.68	22.24	22.44	23.03	22.94	23.52	24.08