

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: P1588263

Luminaire Tested: 24CZSP-42-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-42-L930
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

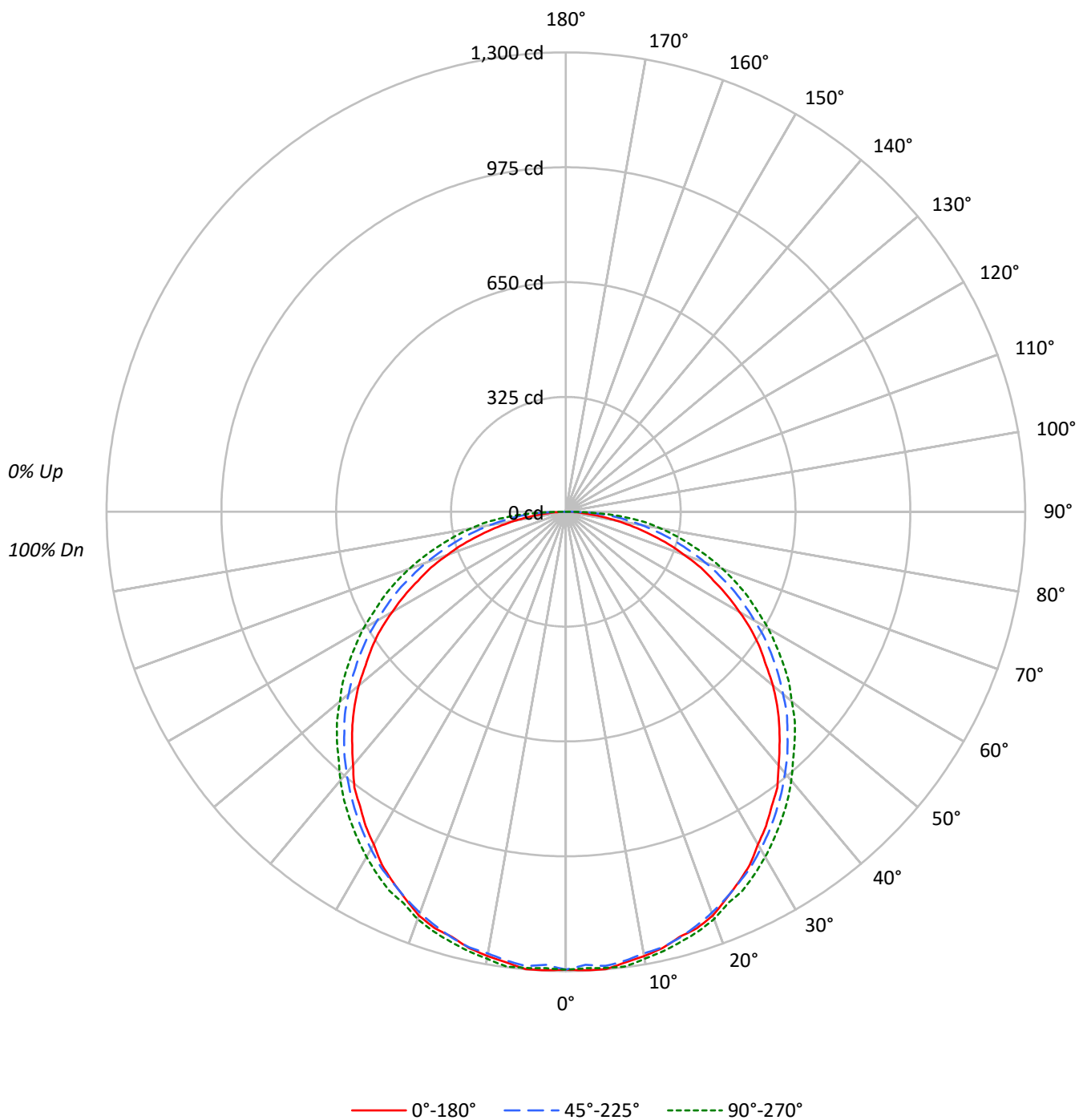
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3955.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1985	1985	1985
5°	1998	1983	1992
10°	1986	1974	1998
15°	1975	1978	1998
20°	1982	1968	1999
25°	1954	1958	1999
30°	1923	1950	1995
35°	1900	1939	1991
40°	1873	1930	1985
45°	1851	1920	1984
50°	1824	1912	1988
55°	1791	1904	2006
60°	1741	1892	2028
65°	1672	1891	2060
70°	1595	1879	2108
75°	1469	1884	2186
80°	1287	1922	2406
85°	982	2214	2880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.1
10°-20°	353.6	8.9
20°-30°	537.2	13.6
30°-40°	650.8	16.5
40°-50°	684.6	17.3
50°-60°	636.6	16.1
60°-70°	512.6	13.0
70°-80°	332.0	8.4
80°-90°	124.5	3.1
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°	1013.9	25.6
0°-40°	1664.7	42.1
0°-60°	2985.9	75.5
0°-90°	3955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1300	1298	1290	1298	1296	123
15°	1246	1250	1247	1263	1260	353
25°	1156	1156	1158	1178	1183	533
35°	1016	1024	1037	1055	1065	637
45°	854	866	887	906	916	659
55°	671	688	713	742	751	598
65°	461	482	522	553	568	459
75°	248	273	318	355	369	264
85°	56	82	126	157	164	69
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.7	1295.7	1295.7	1295.7	1295.7
2.5°	1298.6	1298.6	1283.4	1299.5	1292.9
5°	1299.5	1297.6	1290.1	1297.6	1295.7
7.5°	1286.3	1288.2	1281.5	1291.0	1297.6
10°	1276.8	1278.7	1269.2	1284.4	1284.4
12.5°	1264.5	1266.4	1262.6	1276.8	1274.0
15°	1245.5	1250.3	1247.4	1262.6	1259.8
17.5°	1235.1	1231.3	1228.5	1239.9	1245.5
20°	1216.2	1207.7	1207.7	1222.8	1226.6
22.5°	1185.9	1183.0	1184.0	1202.9	1199.1
25°	1156.5	1155.6	1158.4	1178.3	1183.0
27.5°	1127.1	1125.3	1133.8	1152.7	1156.5
30°	1087.4	1091.2	1102.5	1123.4	1128.1
32.5°	1054.2	1060.8	1071.3	1091.2	1096.8
35°	1016.3	1023.9	1037.2	1055.2	1064.6
37.5°	983.2	987.9	1002.1	1019.2	1030.5
40°	936.8	949.1	965.2	989.8	992.6
42.5°	895.1	907.4	928.2	954.8	951.9
45°	854.4	865.7	886.6	905.5	915.9
47.5°	810.8	821.2	848.7	871.4	879.0
50°	765.3	778.6	802.3	825.9	834.5
52.5°	714.2	728.4	758.7	784.3	796.6
55°	670.6	687.7	713.2	741.6	751.1
57.5°	622.3	636.5	667.8	696.2	705.7
60°	568.3	585.4	617.6	647.9	662.1
62.5°	516.2	535.2	569.3	600.5	611.9
65°	461.3	482.1	521.9	553.2	568.3
67.5°	413.9	431.0	469.8	504.8	521.0
70°	356.1	378.9	419.6	458.4	470.8
72.5°	305.0	324.9	367.5	406.3	421.5
75°	248.2	272.8	318.3	355.2	369.4
77.5°	196.1	221.6	267.1	305.9	322.0
80°	145.9	170.5	217.9	257.6	272.8
82.5°	98.5	123.1	170.5	209.3	226.4
85°	55.9	82.4	126.0	157.2	163.9
87.5°	24.6	47.4	71.0	85.2	90.9
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	14.07	15.75	14.43	16.06	16.38	14.74	16.42	15.11	16.74	17.05
	3H	15.92	17.45	16.30	17.77	18.13	16.96	18.49	17.33	18.81	19.17
	4H	16.61	18.05	17.00	18.40	18.77	17.92	19.37	18.32	19.71	20.09
	6H	17.10	18.44	17.51	18.80	19.19	18.81	20.16	19.22	20.52	20.91
	8H	17.25	18.53	17.67	18.92	19.32	19.22	20.50	19.64	20.89	21.29
	12H	17.33	18.57	17.76	18.95	19.38	19.58	20.81	20.01	21.19	21.62
4H	2H	14.86	16.30	15.26	16.65	17.02	15.38	16.82	15.78	17.17	17.54
	3H	16.95	18.17	17.36	18.56	18.96	17.84	19.06	18.25	19.46	19.86
	4H	17.77	18.88	18.20	19.29	19.72	18.97	20.08	19.40	20.49	20.92
	6H	18.39	19.37	18.84	19.81	20.26	20.04	21.01	20.49	21.45	21.90
	8H	18.59	19.50	19.05	19.95	20.41	20.53	21.44	20.99	21.88	22.35
	12H	18.72	19.55	19.20	20.02	20.49	20.98	21.81	21.46	22.28	22.75
8H	4H	18.27	19.19	18.73	19.63	20.09	19.31	20.23	19.77	20.67	21.13
	6H	19.06	19.83	19.55	20.31	20.79	20.56	21.33	21.05	21.81	22.29
	8H	19.34	20.03	19.85	20.54	21.02	21.18	21.87	21.69	22.38	22.86
	12H	19.56	20.17	20.06	20.66	21.22	21.79	22.41	22.30	22.90	23.45
12H	4H	18.38	19.21	18.86	19.68	20.15	19.35	20.17	19.83	20.65	21.12
	6H	19.23	19.92	19.73	20.42	20.91	20.63	21.33	21.14	21.83	22.31
	8H	19.60	20.21	20.10	20.70	21.26	21.34	21.95	21.84	22.44	23.00