

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: P1588262

Luminaire Tested: 24CZSP-42-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588262
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-42-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

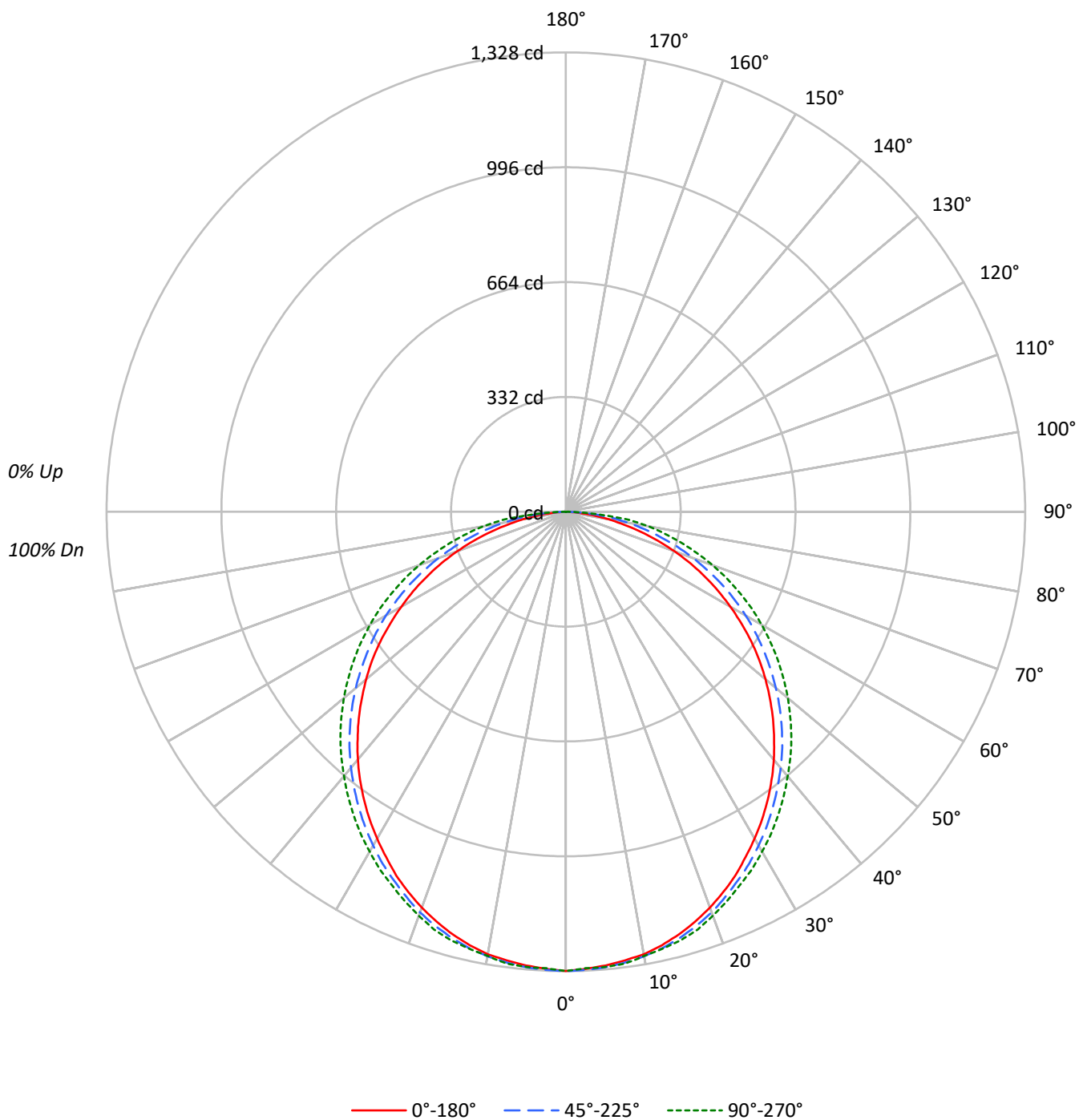
Lumens per Lamp: N/A
Luminaire Lumens: 3876.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2033	2033	2033
5°	2024	2032	2031
10°	2020	2029	2028
15°	2005	2022	2034
20°	1985	2009	2025
25°	1961	1988	2012
30°	1930	1971	2007
35°	1902	1951	2000
40°	1871	1932	1995
45°	1835	1912	1997
50°	1795	1889	1996
55°	1749	1862	1998
60°	1683	1842	2003
65°	1606	1806	2010
70°	1497	1756	2019
75°	1334	1686	2039
80°	1103	1605	2138
85°	717	1450	1868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2206 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.2
10°-20°	359.5	9.3
20°-30°	542.2	14.0
30°-40°	653.1	16.8
40°-50°	682.1	17.6
50°-60°	626.4	16.2
60°-70°	493.4	12.7
70°-80°	302.7	7.8
80°-90°	91.1	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°	1027.3	26.5
0°-40°	1680.4	43.4
0°-60°	2988.9	77.1
0°-90°	3876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1317	1318	1322	1326	1321	125
15°	1265	1267	1275	1283	1283	357
25°	1160	1163	1176	1191	1191	534
35°	1017	1022	1044	1065	1070	636
45°	847	856	883	913	922	653
55°	655	667	697	736	748	585
65°	443	458	498	540	554	438
75°	225	243	285	330	344	239
85°	41	56	82	105	106	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1322.5	1325.1	1325.9	1326.8	1320.8
5°	1316.6	1318.3	1321.7	1325.9	1320.8
7.5°	1308.1	1309.8	1314.0	1320.0	1317.4
10°	1298.7	1299.6	1304.7	1308.9	1303.8
12.5°	1283.4	1286.0	1291.9	1295.3	1293.6
15°	1264.7	1267.2	1274.9	1282.6	1282.6
17.5°	1242.6	1246.0	1255.3	1265.5	1266.4
20°	1217.9	1220.5	1232.4	1242.6	1242.6
22.5°	1189.9	1193.3	1205.2	1216.2	1217.9
25°	1160.1	1162.6	1176.2	1190.7	1190.7
27.5°	1125.2	1130.3	1147.3	1161.8	1165.2
30°	1091.2	1095.4	1114.2	1132.0	1134.6
32.5°	1055.5	1060.6	1080.1	1099.7	1104.0
35°	1017.2	1022.3	1043.6	1064.8	1069.9
37.5°	977.2	983.2	1005.3	1030.0	1035.1
40°	935.6	942.4	966.2	992.5	997.6
42.5°	891.3	900.7	926.2	953.4	961.1
45°	847.1	856.5	882.8	913.4	921.9
47.5°	800.3	811.4	838.6	870.9	880.3
50°	753.5	764.6	792.7	827.5	837.7
52.5°	705.9	717.0	745.9	782.5	793.5
55°	654.9	666.8	697.4	736.5	748.4
57.5°	602.2	617.5	649.8	689.8	701.7
60°	549.4	564.7	601.3	640.4	654.0
62.5°	497.5	512.0	549.4	591.1	605.6
65°	443.1	458.4	498.4	540.1	554.5
67.5°	389.5	404.8	444.8	488.2	503.5
70°	334.2	351.3	392.1	435.5	450.8
72.5°	279.0	296.8	338.5	382.7	397.2
75°	225.4	243.2	284.9	330.0	344.5
77.5°	172.7	192.2	233.0	279.0	292.6
80°	125.0	143.7	182.0	227.1	242.4
82.5°	79.9	96.1	134.4	176.9	188.0
85°	40.8	56.1	82.5	104.6	106.3
87.5°	12.8	17.9	27.2	40.8	41.7
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	13.94	15.61	14.31	15.92	16.23	14.77	16.44	15.14	16.75	17.07
	3H	15.70	17.21	16.08	17.53	17.89	16.89	18.40	17.27	18.72	19.08
	4H	16.32	17.74	16.72	18.09	18.46	17.78	19.20	18.18	19.55	19.92
	6H	16.73	18.05	17.14	18.41	18.80	18.56	19.88	18.97	20.25	20.64
	8H	16.84	18.10	17.26	18.49	18.89	18.88	20.14	19.30	20.53	20.93
	12H	16.89	18.10	17.32	18.48	18.91	19.09	20.30	19.52	20.68	21.11
4H	2H	14.72	16.14	15.11	16.49	16.86	15.36	16.78	15.76	17.13	17.51
	3H	16.69	17.89	17.10	18.29	18.69	17.72	18.92	18.13	19.31	19.71
	4H	17.43	18.52	17.86	18.93	19.36	18.77	19.86	19.20	20.27	20.70
	6H	17.96	18.91	18.41	19.35	19.80	19.72	20.67	20.17	21.11	21.57
	8H	18.10	19.00	18.56	19.44	19.90	20.12	21.01	20.58	21.45	21.92
	12H	18.19	18.99	18.67	19.47	19.93	20.40	21.20	20.87	21.67	22.14
8H	4H	17.89	18.78	18.35	19.22	19.69	19.06	19.95	19.52	20.39	20.86
	6H	18.55	19.29	19.04	19.78	20.25	20.17	20.91	20.66	21.40	21.88
	8H	18.76	19.43	19.27	19.93	20.42	20.68	21.35	21.19	21.86	22.34
	12H	18.90	19.49	19.40	19.98	20.54	21.07	21.66	21.57	22.15	22.71
12H	4H	17.98	18.78	18.46	19.26	19.72	19.08	19.89	19.56	20.36	20.83
	6H	18.68	19.35	19.19	19.86	20.34	20.22	20.89	20.72	21.39	21.88
	8H	18.96	19.55	19.47	20.04	20.60	20.80	21.39	21.30	21.88	22.44