

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: P1588622

Luminaire Tested: 24CZSP-A-43HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588622
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-43HE-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

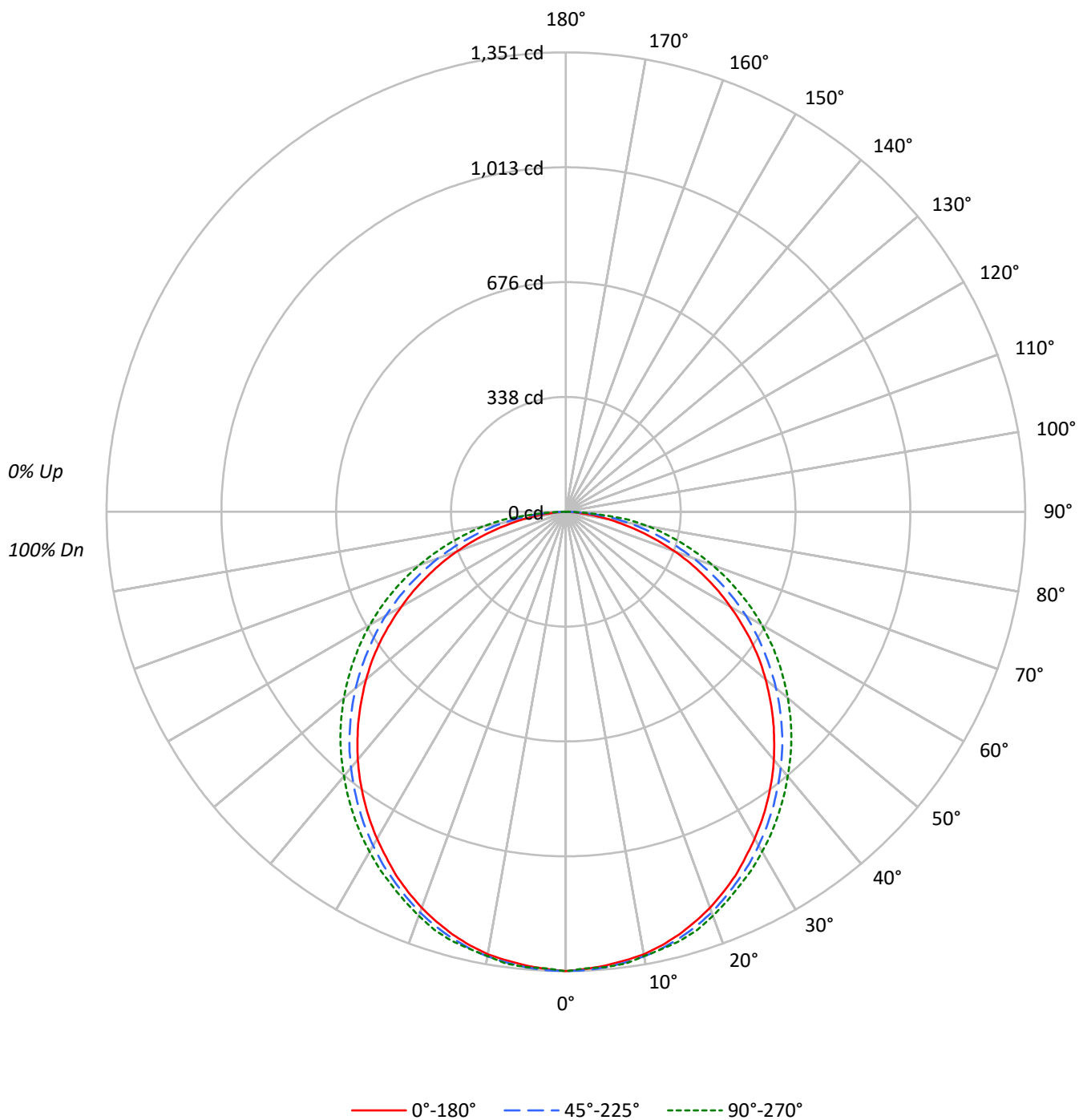
Lumens per Lamp: N/A
Luminaire Lumens: 3944.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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°	2069	2069	2069
5°	2060	2068	2066
10°	2055	2065	2063
15°	2041	2057	2069
20°	2020	2044	2061
25°	1995	2023	2048
30°	1964	2005	2042
35°	1935	1986	2036
40°	1903	1966	2030
45°	1867	1946	2032
50°	1827	1922	2031
55°	1779	1895	2034
60°	1713	1874	2039
65°	1634	1838	2045
70°	1523	1787	2054
75°	1357	1716	2074
80°	1122	1634	2175
85°	729	1474	1901

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.2
10°-20°	365.8	9.3
20°-30°	551.7	14.0
30°-40°	664.6	16.8
40°-50°	694.0	17.6
50°-60°	637.4	16.2
60°-70°	502.0	12.7
70°-80°	308.0	7.8
80°-90°	92.7	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°	1045.3	26.5
0°-40°	1709.9	43.4
0°-60°	3041.3	77.1
0°-90°	3944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3944.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1340	1341	1345	1349	1344	127
15°	1287	1290	1297	1305	1305	363
25°	1180	1183	1197	1212	1212	543
35°	1035	1040	1062	1084	1089	647
45°	862	872	898	930	938	665
55°	666	678	710	750	762	595
65°	451	466	507	550	564	446
75°	229	248	290	336	350	243
85°	42	57	84	106	108	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.9	1350.9	1350.9	1350.9	1350.9
2.5°	1345.7	1348.3	1349.2	1350.1	1344.0
5°	1339.7	1341.4	1344.9	1349.2	1344.0
7.5°	1331.0	1332.8	1337.1	1343.1	1340.5
10°	1321.5	1322.4	1327.6	1331.9	1326.7
12.5°	1305.9	1308.5	1314.6	1318.0	1316.3
15°	1286.9	1289.5	1297.3	1305.1	1305.1
17.5°	1264.4	1267.8	1277.4	1287.7	1288.6
20°	1239.3	1241.9	1254.0	1264.4	1264.4
22.5°	1210.7	1214.2	1226.3	1237.6	1239.3
25°	1180.4	1183.0	1196.9	1211.6	1211.6
27.5°	1145.0	1150.1	1167.5	1182.2	1185.6
30°	1110.3	1114.7	1133.7	1151.9	1154.5
32.5°	1074.0	1079.2	1099.1	1119.0	1123.3
35°	1035.0	1040.2	1061.9	1083.5	1088.7
37.5°	994.4	1000.4	1022.9	1048.0	1053.2
40°	952.0	958.9	983.1	1009.9	1015.1
42.5°	907.0	916.5	942.4	970.1	977.9
45°	862.0	871.5	898.3	929.5	938.1
47.5°	814.4	825.6	853.3	886.2	895.7
50°	766.8	778.0	806.6	842.1	852.4
52.5°	718.3	729.6	759.0	796.2	807.4
55°	666.4	678.5	709.6	749.5	761.6
57.5°	612.7	628.3	661.2	701.9	714.0
60°	559.1	574.6	611.9	651.7	665.5
62.5°	506.3	521.0	559.1	601.5	616.2
65°	450.9	466.5	507.1	549.5	564.3
67.5°	396.4	411.9	452.6	496.8	512.3
70°	340.1	357.4	399.0	443.1	458.7
72.5°	283.9	302.0	344.4	389.4	404.2
75°	229.3	247.5	289.9	335.8	350.5
77.5°	175.7	195.6	237.1	283.9	297.7
80°	127.2	146.3	185.2	231.1	246.6
82.5°	81.3	97.8	136.7	180.0	191.3
85°	41.5	57.1	83.9	106.4	108.2
87.5°	13.0	18.2	27.7	41.5	42.4
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	14.00	15.67	14.37	15.98	16.29	14.83	16.50	15.20	16.81	17.13
	3H	15.76	17.27	16.14	17.59	17.95	16.95	18.46	17.33	18.78	19.14
	4H	16.38	17.80	16.78	18.15	18.52	17.84	19.26	18.24	19.61	19.98
	6H	16.79	18.11	17.20	18.47	18.86	18.62	19.94	19.03	20.31	20.70
	8H	16.90	18.16	17.32	18.55	18.95	18.94	20.20	19.36	20.59	20.99
	12H	16.95	18.16	17.38	18.54	18.97	19.15	20.36	19.58	20.74	21.17
4H	2H	14.78	16.20	15.17	16.55	16.92	15.42	16.84	15.82	17.19	17.57
	3H	16.75	17.95	17.16	18.35	18.75	17.78	18.98	18.19	19.37	19.77
	4H	17.49	18.58	17.92	18.99	19.42	18.83	19.92	19.26	20.33	20.76
	6H	18.02	18.97	18.47	19.41	19.86	19.78	20.73	20.23	21.17	21.63
	8H	18.16	19.06	18.62	19.50	19.96	20.18	21.07	20.64	21.51	21.98
	12H	18.25	19.05	18.73	19.53	19.99	20.46	21.26	20.94	21.73	22.20
8H	4H	17.95	18.84	18.41	19.28	19.75	19.12	20.01	19.58	20.45	20.92
	6H	18.61	19.35	19.10	19.84	20.32	20.23	20.97	20.72	21.46	21.94
	8H	18.82	19.49	19.33	19.99	20.48	20.74	21.41	21.25	21.92	22.40
	12H	18.96	19.55	19.47	20.04	20.60	21.13	21.72	21.63	22.21	22.77
12H	4H	18.04	18.84	18.52	19.32	19.78	19.14	19.95	19.62	20.42	20.89
	6H	18.74	19.41	19.25	19.92	20.40	20.28	20.95	20.78	21.45	21.94
	8H	19.02	19.61	19.53	20.10	20.66	20.86	21.45	21.36	21.94	22.50