

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: P1588600

Luminaire Tested: 24CZSP-A-42-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588600
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-42-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

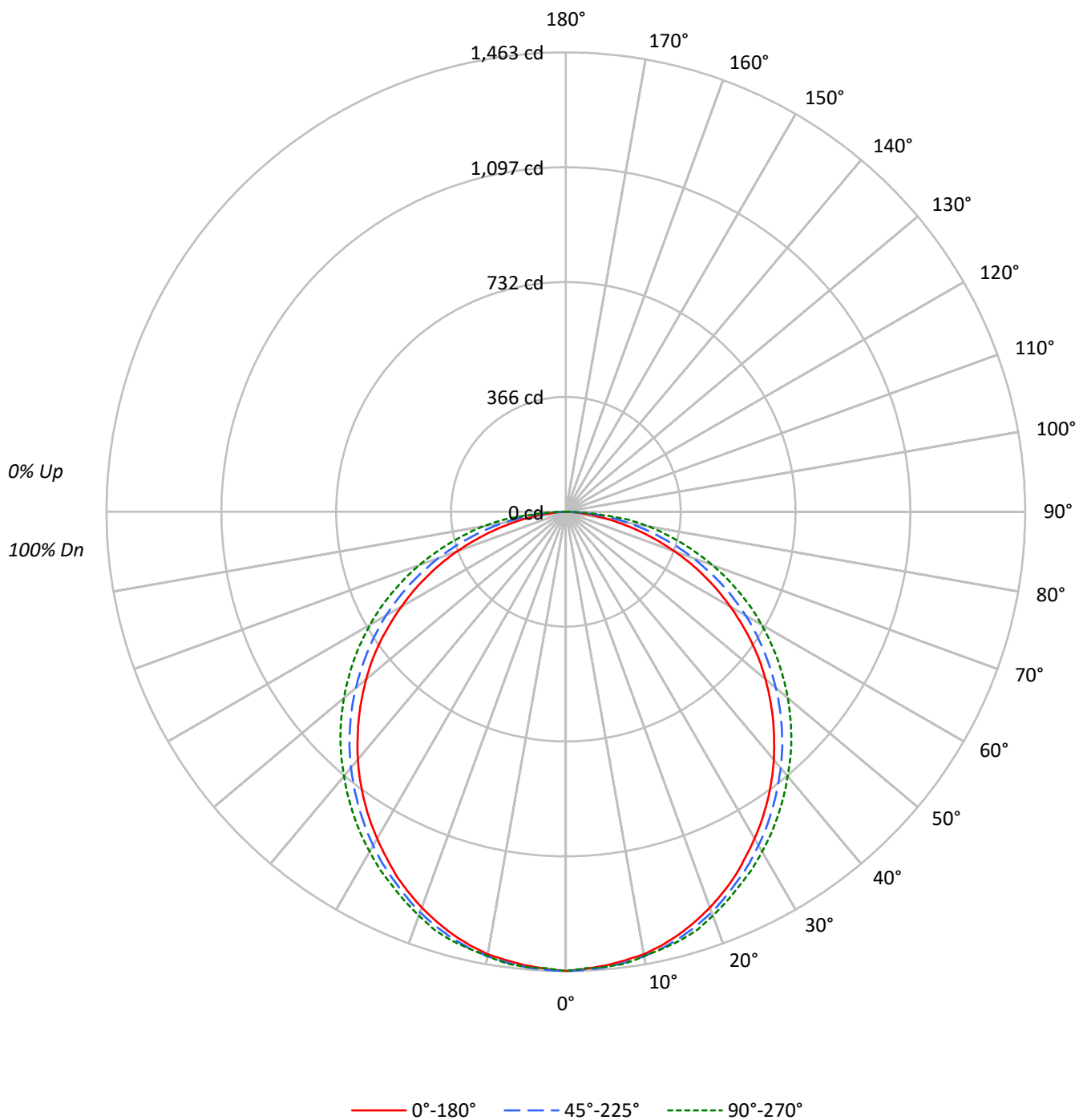
Lumens per Lamp: N/A
Luminaire Lumens: 4270.0 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2240	2240	2240
5°	2230	2239	2237
10°	2225	2235	2234
15°	2209	2227	2240
20°	2187	2213	2231
25°	2160	2190	2217
30°	2126	2171	2211
35°	2095	2149	2204
40°	2061	2128	2197
45°	2021	2107	2200
50°	1978	2081	2199
55°	1927	2052	2202
60°	1854	2029	2207
65°	1769	1990	2214
70°	1649	1934	2224
75°	1469	1858	2246
80°	1215	1768	2355
85°	791	1597	2058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2430 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.2
10°-20°	396.1	9.3
20°-30°	597.3	14.0
30°-40°	719.5	16.8
40°-50°	751.4	17.6
50°-60°	690.1	16.2
60°-70°	543.5	12.7
70°-80°	333.4	7.8
80°-90°	100.3	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°	1131.7	26.5
0°-40°	1851.2	43.4
0°-60°	3292.7	77.1
0°-90°	4270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1450	1452	1456	1461	1455	138
15°	1393	1396	1404	1413	1413	393
25°	1278	1281	1296	1312	1312	588
35°	1121	1126	1150	1173	1179	701
45°	933	944	973	1006	1016	720
55°	722	735	768	811	824	644
65°	488	505	549	595	611	483
75°	248	268	314	364	380	263
85°	45	62	91	115	117	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.6	1462.6	1462.6	1462.6	1462.6
2.5°	1457.0	1459.8	1460.7	1461.7	1455.1
5°	1450.4	1452.3	1456.0	1460.7	1455.1
7.5°	1441.0	1442.9	1447.6	1454.2	1451.3
10°	1430.7	1431.7	1437.3	1442.0	1436.4
12.5°	1413.9	1416.7	1423.2	1427.0	1425.1
15°	1393.3	1396.1	1404.5	1412.9	1412.9
17.5°	1368.9	1372.6	1382.9	1394.2	1395.1
20°	1341.7	1344.5	1357.6	1368.9	1368.9
22.5°	1310.8	1314.5	1327.7	1339.8	1341.7
25°	1278.0	1280.8	1295.8	1311.7	1311.7
27.5°	1239.6	1245.2	1264.0	1279.9	1283.6
30°	1202.1	1206.8	1227.4	1247.1	1249.9
32.5°	1162.8	1168.4	1189.9	1211.5	1216.2
35°	1120.6	1126.2	1149.6	1173.1	1178.7
37.5°	1076.6	1083.1	1107.5	1134.7	1140.3
40°	1030.7	1038.1	1064.4	1093.4	1099.0
42.5°	981.9	992.2	1020.3	1050.3	1058.8
45°	933.2	943.5	972.6	1006.3	1015.7
47.5°	881.7	893.9	923.8	959.4	969.7
50°	830.1	842.3	873.2	911.7	922.9
52.5°	777.7	789.9	821.7	862.0	874.2
55°	721.5	734.6	768.3	811.4	824.5
57.5°	663.4	680.2	715.8	759.9	773.0
60°	605.3	622.1	662.4	705.5	720.5
62.5°	548.1	564.0	605.3	651.2	667.1
65°	488.2	505.0	549.1	595.0	610.9
67.5°	429.1	446.0	490.0	537.8	554.7
70°	368.2	387.0	431.9	479.7	496.6
72.5°	307.3	327.0	372.9	421.6	437.6
75°	248.3	268.0	313.9	363.5	379.5
77.5°	190.2	211.8	256.7	307.3	322.3
80°	137.7	158.3	200.5	250.2	267.0
82.5°	88.1	105.9	148.0	194.9	207.1
85°	45.0	61.8	90.9	115.2	117.1
87.5°	14.1	19.7	30.0	45.0	45.9
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	14.28	15.94	14.64	16.26	16.57	15.11	16.77	15.48	17.09	17.40
	3H	16.04	17.54	16.41	17.87	18.23	17.23	18.73	17.60	19.06	19.42
	4H	16.65	18.08	17.05	18.42	18.80	18.12	19.54	18.51	19.89	20.26
	6H	17.07	18.39	17.48	18.75	19.14	18.90	20.22	19.31	20.58	20.97
	8H	17.17	18.44	17.60	18.82	19.22	19.22	20.48	19.64	20.87	21.27
	12H	17.22	18.44	17.65	18.82	19.25	19.43	20.64	19.86	21.02	21.45
4H	2H	15.05	16.47	15.45	16.82	17.20	15.70	17.12	16.10	17.47	17.84
	3H	17.03	18.23	17.44	18.62	19.02	18.05	19.25	18.46	19.65	20.05
	4H	17.77	18.85	18.20	19.26	19.70	19.11	20.19	19.54	20.60	21.04
	6H	18.29	19.25	18.75	19.69	20.14	20.06	21.01	20.51	21.45	21.90
	8H	18.44	19.33	18.90	19.77	20.24	20.46	21.35	20.91	21.79	22.25
	12H	18.52	19.33	19.00	19.80	20.27	20.73	21.54	21.21	22.01	22.48
8H	4H	18.23	19.12	18.68	19.56	20.02	19.39	20.29	19.85	20.73	21.19
	6H	18.89	19.63	19.38	20.12	20.59	20.51	21.25	21.00	21.74	22.21
	8H	19.10	19.77	19.60	20.27	20.75	21.02	21.69	21.53	22.19	22.68
	12H	19.24	19.83	19.74	20.32	20.88	21.40	22.00	21.91	22.49	23.04
12H	4H	18.31	19.12	18.79	19.59	20.06	19.42	20.22	19.90	20.70	21.17
	6H	19.02	19.69	19.53	20.19	20.68	20.55	21.22	21.06	21.73	22.21
	8H	19.30	19.89	19.80	20.38	20.94	21.13	21.72	21.64	22.21	22.77