

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: P1588607

Luminaire Tested: 24CZSP-A-42-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588607
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-A-42-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

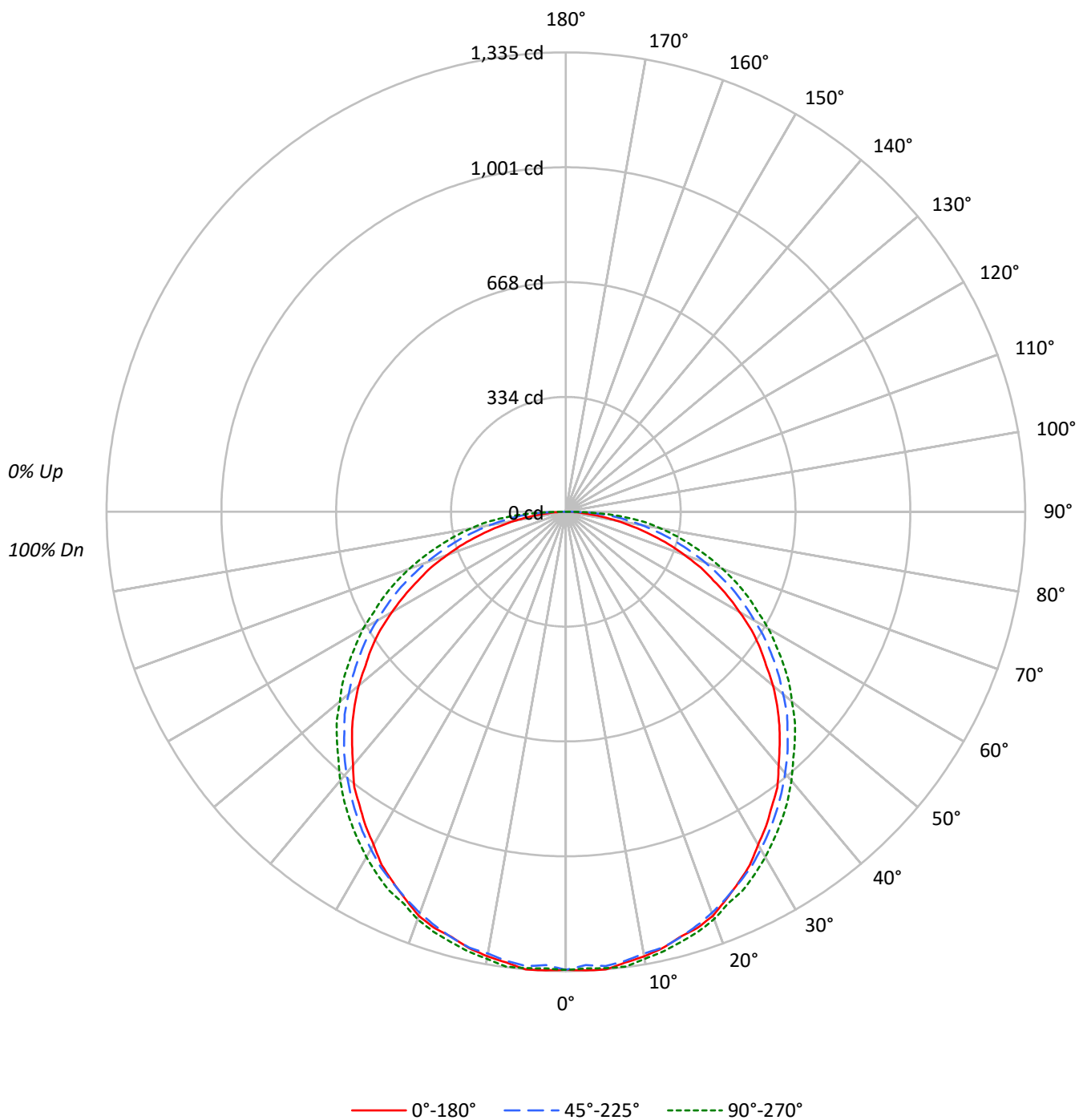
Lumens per Lamp: N/A
Luminaire Lumens: 4063.0 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2039	2039	2039
5°	2053	2038	2047
10°	2040	2028	2052
15°	2029	2032	2052
20°	2036	2022	2054
25°	2008	2011	2054
30°	1976	2003	2050
35°	1952	1992	2045
40°	1924	1982	2039
45°	1901	1973	2038
50°	1873	1964	2043
55°	1840	1957	2060
60°	1788	1943	2084
65°	1717	1943	2116
70°	1639	1931	2166
75°	1508	1935	2246
80°	1321	1974	2471
85°	1009	2274	2958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3280 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.1
10°-20°	363.3	8.9
20°-30°	551.9	13.6
30°-40°	668.5	16.5
40°-50°	703.3	17.3
50°-60°	654.0	16.1
60°-70°	526.6	13.0
70°-80°	341.1	8.4
80°-90°	127.9	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°	1041.6	25.6
0°-40°	1710.1	42.1
0°-60°	3067.4	75.5
0°-90°	4063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1331	1331	1331	1331	1331	
5°	1335	1333	1325	1333	1331	126
15°	1280	1284	1282	1297	1294	363
25°	1188	1187	1190	1210	1215	548
35°	1044	1052	1066	1084	1094	654
45°	878	889	911	930	941	677
55°	689	706	733	762	772	614
65°	474	495	536	568	584	471
75°	255	280	327	365	380	271
85°	57	85	129	162	168	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1331.1	1331.1	1331.1	1331.1	1331.1
2.5°	1334.0	1334.0	1318.5	1335.0	1328.2
5°	1335.0	1333.1	1325.3	1333.1	1331.1
7.5°	1321.4	1323.3	1316.5	1326.3	1333.1
10°	1311.7	1313.6	1303.9	1319.5	1319.5
12.5°	1299.0	1301.0	1297.1	1311.7	1308.8
15°	1279.6	1284.4	1281.5	1297.1	1294.2
17.5°	1268.9	1265.0	1262.0	1273.7	1279.6
20°	1249.4	1240.6	1240.6	1256.2	1260.1
22.5°	1218.3	1215.3	1216.3	1235.8	1231.9
25°	1188.1	1187.1	1190.0	1210.5	1215.3
27.5°	1157.9	1156.0	1164.7	1184.2	1188.1
30°	1117.1	1121.0	1132.6	1154.0	1158.9
32.5°	1083.0	1089.8	1100.5	1121.0	1126.8
35°	1044.1	1051.9	1065.5	1084.0	1093.7
37.5°	1010.0	1014.9	1029.5	1047.0	1058.7
40°	962.3	975.0	991.5	1016.8	1019.8
42.5°	919.5	932.2	953.6	980.8	977.9
45°	877.7	889.4	910.8	930.2	940.9
47.5°	832.9	843.6	871.9	895.2	903.0
50°	786.2	799.8	824.2	848.5	857.3
52.5°	733.7	748.3	779.4	805.7	818.3
55°	688.9	706.4	732.7	761.9	771.6
57.5°	639.3	653.9	686.0	715.2	724.9
60°	583.8	601.3	634.4	665.6	680.2
62.5°	530.3	549.8	584.8	616.9	628.6
65°	473.9	495.3	536.1	568.3	583.8
67.5°	425.2	442.7	482.6	518.6	535.2
70°	365.9	389.2	431.1	471.0	483.6
72.5°	313.3	333.8	377.5	417.4	433.0
75°	254.9	280.2	326.9	364.9	379.5
77.5°	201.4	227.7	274.4	314.3	330.8
80°	149.8	175.1	223.8	264.7	280.2
82.5°	101.2	126.5	175.1	215.0	232.6
85°	57.4	84.7	129.4	161.5	168.3
87.5°	25.3	48.7	73.0	87.6	93.4
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	14.16	15.84	14.52	16.15	16.47	14.83	16.52	15.20	16.83	17.14
	3H	16.01	17.54	16.39	17.87	18.23	17.05	18.58	17.43	18.91	19.27
	4H	16.70	18.14	17.10	18.49	18.86	18.02	19.46	18.41	19.81	20.18
	6H	17.19	18.53	17.60	18.90	19.29	18.91	20.25	19.32	20.61	21.00
	8H	17.34	18.62	17.76	19.01	19.41	19.31	20.60	19.73	20.98	21.38
	12H	17.43	18.66	17.86	19.04	19.47	19.67	20.90	20.10	21.28	21.71
4H	2H	14.95	16.40	15.35	16.74	17.12	15.47	16.92	15.87	17.26	17.64
	3H	17.04	18.26	17.45	18.66	19.06	17.93	19.15	18.34	19.55	19.95
	4H	17.86	18.97	18.29	19.38	19.82	19.06	20.17	19.49	20.58	21.02
	6H	18.48	19.46	18.94	19.90	20.35	20.13	21.11	20.58	21.55	22.00
	8H	18.68	19.60	19.14	20.04	20.50	20.62	21.54	21.08	21.98	22.44
	12H	18.82	19.64	19.29	20.12	20.58	21.07	21.90	21.55	22.37	22.84
8H	4H	18.37	19.28	18.83	19.72	20.19	19.40	20.32	19.86	20.76	21.22
	6H	19.15	19.92	19.64	20.41	20.88	20.65	21.42	21.14	21.91	22.38
	8H	19.44	20.13	19.94	20.63	21.11	21.28	21.97	21.78	22.47	22.95
	12H	19.65	20.27	20.16	20.76	21.31	21.89	22.50	22.39	22.99	23.55
12H	4H	18.48	19.30	18.95	19.78	20.24	19.44	20.27	19.92	20.74	21.21
	6H	19.32	20.01	19.83	20.52	21.00	20.73	21.42	21.23	21.92	22.41
	8H	19.69	20.30	20.19	20.79	21.35	21.43	22.05	21.94	22.53	23.09