

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: P1589742

Luminaire Tested: 24CZSP-SB-42-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-42-L930-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 90CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

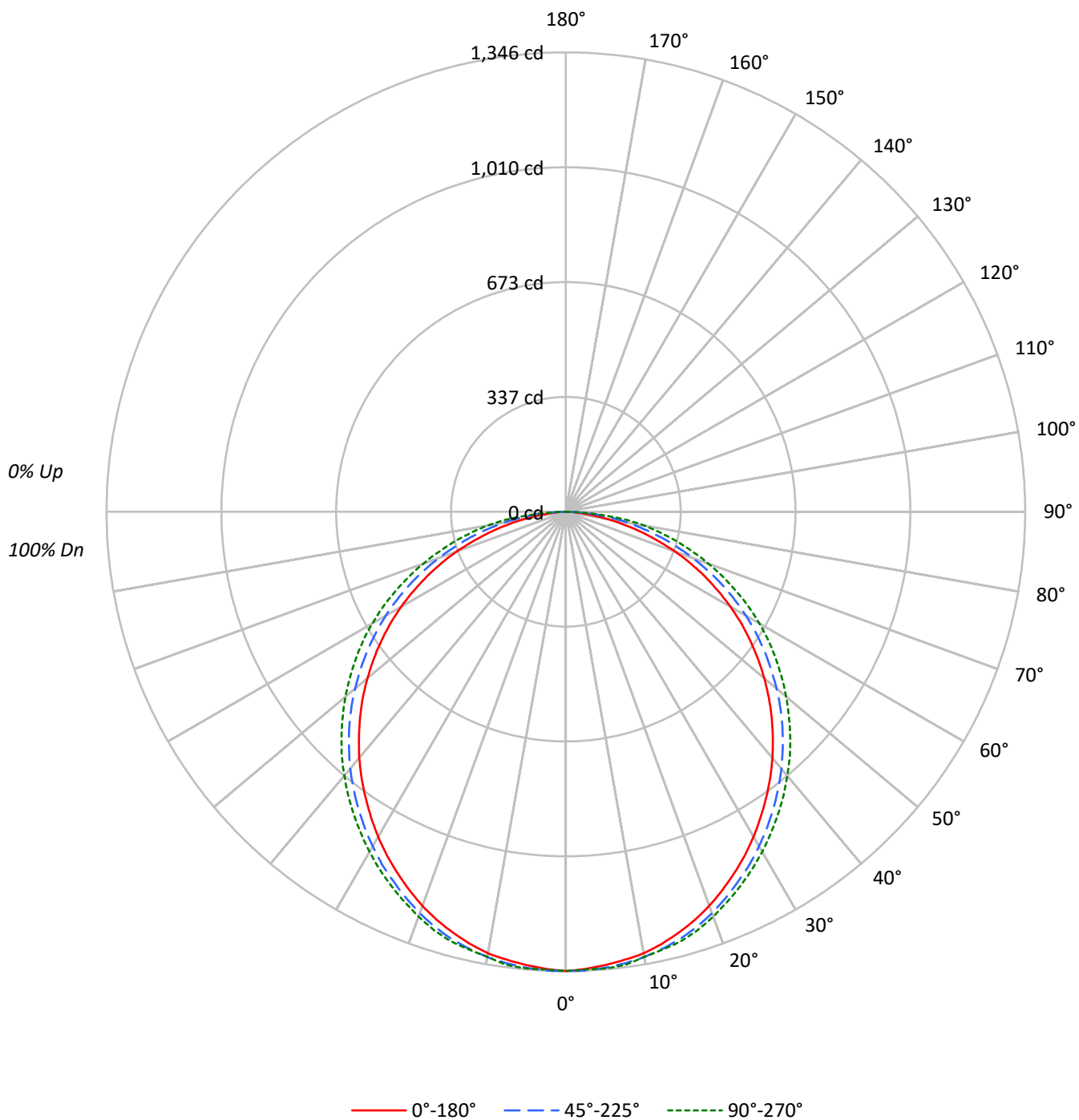
Lumens per Lamp: N/A
Luminaire Lumens: 3915.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	94	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	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		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	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2061	2061	2061
5°	2050	2061	2065
10°	2043	2060	2059
15°	2025	2054	2066
20°	2003	2040	2058
25°	1974	2020	2045
30°	1945	2002	2035
35°	1913	1983	2025
40°	1883	1965	2019
45°	1848	1945	2014
50°	1808	1921	2009
55°	1763	1896	2006
60°	1708	1868	2007
65°	1630	1828	1996
70°	1524	1772	1991
75°	1350	1704	1998
80°	1099	1619	2058
85°	710	1495	1777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.3
10°-20°	364.7	9.3
20°-30°	549.9	14.0
30°-40°	661.7	16.9
40°-50°	690.2	17.6
50°-60°	632.6	16.2
60°-70°	496.8	12.7
70°-80°	302.3	7.7
80°-90°	89.4	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°	1042.0	26.6
0°-40°	1703.6	43.5
0°-60°	3026.4	77.3
0°-90°	3915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1333	1342	1341	1339	1343	127
15°	1277	1289	1295	1297	1303	360
25°	1168	1184	1195	1203	1210	538
35°	1023	1039	1060	1076	1083	640
45°	853	871	898	919	930	658
55°	660	677	710	739	751	590
65°	450	467	504	538	551	445
75°	228	249	288	323	338	242
85°	40	57	85	95	101	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1345.8	1345.8	1345.8	1345.8	1345.8
2.5°	1340.8	1347.5	1345.8	1339.9	1342.5
5°	1333.2	1341.6	1340.8	1339.1	1343.3
7.5°	1323.9	1333.2	1334.1	1334.1	1339.1
10°	1313.8	1323.1	1324.8	1322.3	1323.9
12.5°	1297.0	1307.9	1311.3	1311.3	1313.8
15°	1276.8	1289.4	1295.3	1297.0	1302.9
17.5°	1254.9	1268.4	1275.9	1280.1	1285.2
20°	1228.8	1243.1	1251.5	1256.6	1262.5
22.5°	1199.3	1215.3	1224.6	1229.6	1236.4
25°	1168.1	1184.1	1195.1	1202.7	1210.2
27.5°	1135.3	1150.5	1165.6	1174.9	1181.6
30°	1099.9	1115.9	1131.9	1143.7	1150.5
32.5°	1062.0	1078.9	1097.4	1110.0	1117.6
35°	1023.3	1039.3	1060.3	1075.5	1083.1
37.5°	983.7	1000.5	1022.4	1038.4	1047.7
40°	941.6	959.3	982.9	1000.5	1009.8
42.5°	897.8	914.6	940.7	961.0	971.9
45°	853.2	870.8	897.8	918.8	929.8
47.5°	806.8	823.7	853.2	877.6	886.8
50°	758.8	774.8	806.0	832.1	843.0
52.5°	710.0	726.8	758.0	785.8	797.6
55°	660.3	677.1	710.0	738.6	751.2
57.5°	609.8	626.6	660.3	689.8	704.9
60°	557.5	574.4	609.8	640.1	655.2
62.5°	503.6	521.3	557.5	588.7	604.7
65°	449.7	466.6	504.5	538.2	550.8
67.5°	395.8	412.7	449.7	483.4	498.6
70°	340.3	359.6	395.8	431.2	444.7
72.5°	282.1	304.0	340.3	377.3	390.8
75°	228.2	249.3	288.0	322.6	337.7
77.5°	175.2	197.9	234.1	269.5	284.7
80°	124.6	146.5	183.6	217.3	233.3
82.5°	79.2	98.5	135.6	165.9	177.7
85°	40.4	57.3	85.1	95.2	101.1
87.5°	11.8	20.2	30.3	37.9	42.1
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	14.01	15.67	14.38	15.99	16.30	14.75	16.41	15.11	16.72	17.04
	3H	15.78	17.29	16.16	17.61	17.97	16.83	18.33	17.20	18.66	19.02
	4H	16.40	17.82	16.80	18.17	18.54	17.69	19.11	18.09	19.46	19.83
	6H	16.81	18.13	17.22	18.49	18.88	18.44	19.75	18.85	20.12	20.51
	8H	16.91	18.17	17.34	18.56	18.96	18.73	19.99	19.16	20.38	20.78
	12H	16.96	18.17	17.39	18.55	18.98	18.93	20.13	19.35	20.52	20.94
4H	2H	14.78	16.20	15.18	16.55	16.92	15.35	16.77	15.75	17.12	17.49
	3H	16.77	17.97	17.18	18.36	18.76	17.67	18.86	18.07	19.26	19.66
	4H	17.51	18.60	17.95	19.01	19.45	18.68	19.77	19.11	20.18	20.62
	6H	18.04	18.99	18.50	19.43	19.89	19.59	20.54	20.04	20.98	21.43
	8H	18.19	19.07	18.64	19.52	19.98	19.96	20.85	20.42	21.29	21.75
	12H	18.27	19.07	18.74	19.54	20.01	20.21	21.01	20.69	21.49	21.95
8H	4H	17.96	18.85	18.42	19.29	19.76	18.98	19.87	19.44	20.31	20.78
	6H	18.62	19.37	19.12	19.85	20.33	20.04	20.78	20.53	21.27	21.74
	8H	18.83	19.50	19.34	20.00	20.49	20.51	21.18	21.02	21.68	22.17
	12H	18.97	19.56	19.47	20.05	20.61	20.86	21.45	21.37	21.94	22.50
12H	4H	18.04	18.84	18.52	19.32	19.78	19.01	19.81	19.49	20.28	20.75
	6H	18.75	19.41	19.25	19.92	20.40	20.09	20.76	20.60	21.26	21.75
	8H	19.02	19.61	19.53	20.10	20.66	20.63	21.22	21.13	21.71	22.27