

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: P1584288

Luminaire Tested: 14CZSP-42-L945-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-42-L945-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

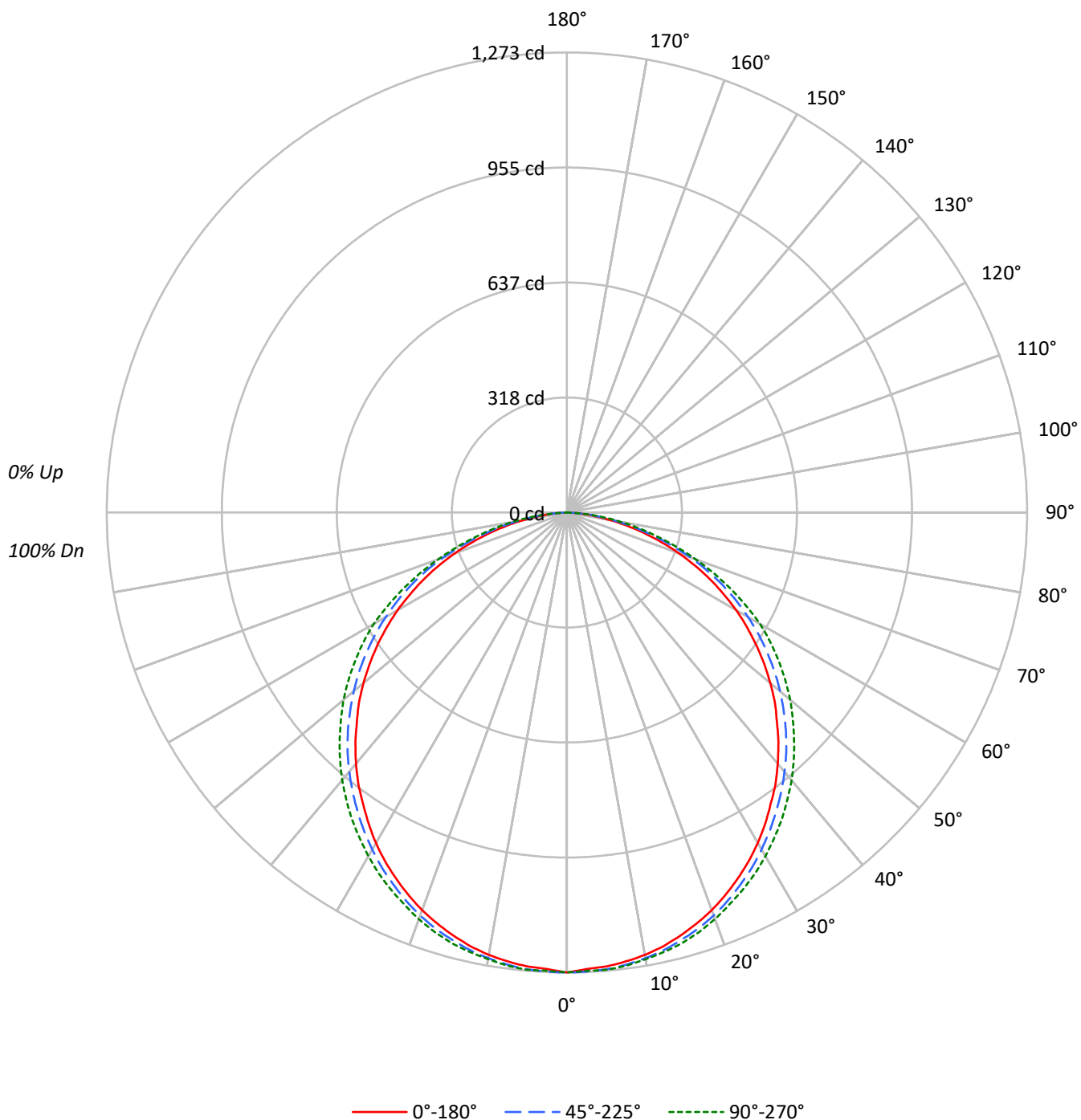
Lumens per Lamp: N/A
Luminaire Lumens: 3680.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.5
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
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4289	4289	4289
5°	4265	4293	4296
10°	4253	4285	4294
15°	4229	4272	4303
20°	4199	4256	4294
25°	4157	4223	4282
30°	4110	4190	4272
35°	4044	4153	4264
40°	3991	4119	4253
45°	3916	4083	4236
50°	3850	4035	4228
55°	3758	3978	4200
60°	3643	3899	4158
65°	3481	3792	3987
70°	3244	3581	3741
75°	2898	3230	3414
80°	2375	2722	2984
85°	1593	1991	2219

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4236 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.3
10°-20°	345.6	9.4
20°-30°	523.3	14.2
30°-40°	632.0	17.2
40°-50°	660.5	17.9
50°-60°	605.2	16.4
60°-70°	467.2	12.7
70°-80°	262.8	7.1
80°-90°	62.9	1.7
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°	989.5	26.9
0°-40°	1621.5	44.1
0°-60°	2887.1	78.5
0°-90°	3680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1261	1270	1269	1270	1270	120
15°	1212	1222	1225	1230	1233	342
25°	1118	1128	1136	1142	1152	515
35°	983	996	1010	1023	1037	616
45°	822	838	857	874	889	635
55°	640	656	677	698	715	572
65°	437	456	476	494	500	431
75°	223	243	248	258	262	236
85°	41	47	52	56	57	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1272.9	1272.9	1272.9	1272.9	1272.9
2.5°	1264.2	1274.0	1271.8	1275.1	1269.1
5°	1261.0	1270.2	1269.1	1270.2	1270.2
7.5°	1252.9	1262.6	1262.1	1263.7	1264.8
10°	1243.1	1252.3	1252.3	1254.0	1255.0
12.5°	1229.6	1239.3	1240.4	1243.1	1245.3
15°	1212.2	1222.0	1224.7	1229.6	1233.4
17.5°	1192.7	1203.0	1207.4	1212.2	1217.1
20°	1171.1	1180.3	1186.8	1190.6	1197.6
22.5°	1145.6	1155.9	1163.0	1166.7	1174.3
25°	1118.0	1127.7	1135.9	1141.8	1151.6
27.5°	1088.7	1098.5	1108.2	1115.3	1126.7
30°	1056.2	1066.5	1076.8	1087.7	1098.0
32.5°	1021.0	1033.0	1044.3	1056.2	1067.6
35°	983.1	995.6	1009.7	1023.2	1036.7
37.5°	947.9	959.3	973.9	988.5	1002.1
40°	907.3	919.7	936.5	952.8	966.9
42.5°	866.1	879.7	898.1	913.8	929.0
45°	821.7	838.0	856.9	874.2	888.9
47.5°	780.5	794.6	813.6	832.5	847.7
50°	734.5	750.2	769.7	789.7	806.5
52.5°	687.9	704.2	724.2	744.2	761.6
55°	639.7	656.5	677.1	698.2	715.0
57.5°	590.4	608.3	629.4	650.5	667.3
60°	540.6	558.5	578.5	601.8	617.0
62.5°	488.6	508.6	527.6	549.2	558.5
65°	436.6	455.5	475.6	494.5	500.0
67.5°	383.5	403.0	420.9	433.3	440.4
70°	329.3	350.5	363.5	375.4	379.7
72.5°	275.7	296.8	304.4	315.8	320.1
75°	222.6	243.2	248.1	258.4	262.2
77.5°	171.2	190.1	191.7	203.7	206.9
80°	122.4	137.6	140.3	151.7	153.8
82.5°	78.5	89.4	93.2	102.9	106.2
85°	41.2	47.1	51.5	56.3	57.4
87.5°	13.5	16.8	14.1	14.6	13.5
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	16.77	18.42	17.14	18.74	19.05	17.31	18.96	17.68	19.28	19.59
	3H	18.55	20.04	18.92	20.37	20.73	19.17	20.66	19.54	20.99	21.35
	4H	19.17	20.58	19.57	20.93	21.30	19.84	21.24	20.23	21.59	21.97
	6H	19.58	20.89	19.99	21.25	21.64	20.31	21.62	20.72	21.98	22.37
	8H	19.69	20.93	20.11	21.32	21.72	20.46	21.71	20.88	22.09	22.49
	12H	19.74	20.93	20.16	21.31	21.74	20.54	21.74	20.97	22.12	22.55
4H	2H	17.50	18.90	17.89	19.25	19.63	17.92	19.32	18.32	19.67	20.05
	3H	19.49	20.67	19.90	21.07	21.47	19.99	21.17	20.40	21.57	21.97
	4H	20.25	21.32	20.68	21.73	22.16	20.79	21.85	21.22	22.27	22.70
	6H	20.78	21.71	21.23	22.15	22.60	21.39	22.32	21.84	22.76	23.22
	8H	20.91	21.79	21.37	22.23	22.69	21.58	22.45	22.04	22.90	23.36
	12H	20.99	21.78	21.47	22.25	22.72	21.70	22.49	22.18	22.96	23.43
8H	4H	20.58	21.46	21.04	21.90	22.36	21.06	21.94	21.52	22.38	22.84
	6H	21.23	21.95	21.72	22.44	22.91	21.77	22.50	22.27	22.99	23.46
	8H	21.43	22.08	21.93	22.58	23.07	22.03	22.68	22.54	23.19	23.67
	12H	21.55	22.13	22.06	22.62	23.18	22.21	22.79	22.72	23.28	23.84
12H	4H	20.62	21.41	21.10	21.88	22.35	21.09	21.87	21.57	22.35	22.81
	6H	21.28	21.93	21.79	22.44	22.92	21.81	22.46	22.32	22.97	23.45
	8H	21.53	22.11	22.04	22.60	23.16	22.12	22.69	22.62	23.18	23.74