

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: P1584303

Luminaire Tested: 14CZSP-43HE-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-43HE-L930
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

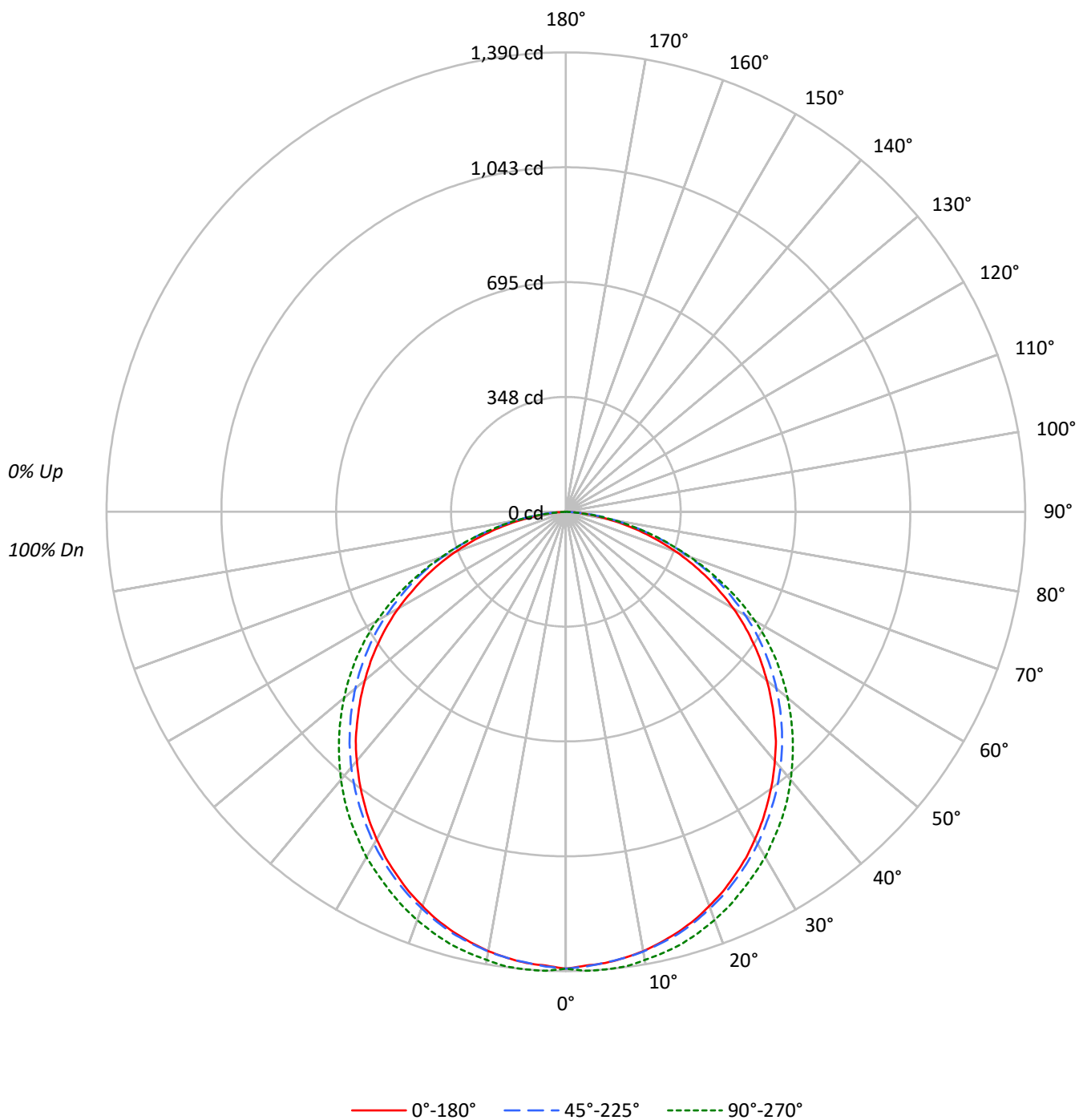
Lumens per Lamp: N/A
Luminaire Lumens: 3982.0 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		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°	4658	4658	4658
5°	4636	4632	4702
10°	4619	4623	4712
15°	4591	4609	4723
20°	4551	4579	4714
25°	4506	4549	4699
30°	4452	4518	4695
35°	4391	4476	4680
40°	4329	4443	4655
45°	4249	4404	4628
50°	4162	4360	4592
55°	4068	4306	4550
60°	3948	4228	4457
65°	3767	4120	4255
70°	3514	3886	3950
75°	3135	3507	3542
80°	2552	2955	2930
85°	1662	2065	1612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	3.3
10°-20°	375.2	9.4
20°-30°	568.2	14.3
30°-40°	686.4	17.2
40°-50°	717.0	18.0
50°-60°	656.6	16.5
60°-70°	504.5	12.7
70°-80°	280.9	7.1
80°-90°	62.2	1.6
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°	1074.3	27.0
0°-40°	1760.7	44.2
0°-60°	3134.4	78.7
0°-90°	3982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1371	1385	1369	1377	1390	130
15°	1316	1329	1321	1334	1354	371
25°	1212	1226	1224	1242	1264	559
35°	1067	1083	1088	1114	1138	668
45°	892	911	924	952	971	688
55°	692	715	733	759	774	619
65°	472	497	517	527	534	467
75°	241	266	269	269	272	255
85°	43	51	53	44	42	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.4	1382.4	1382.4	1382.4	1382.4
2.5°	1374.6	1387.6	1377.2	1381.1	1390.2
5°	1370.7	1385.0	1369.4	1377.2	1390.2
7.5°	1361.6	1374.6	1361.6	1370.7	1387.6
10°	1349.9	1364.2	1351.2	1360.3	1377.2
12.5°	1334.2	1345.9	1336.8	1349.9	1366.8
15°	1316.0	1329.0	1321.2	1334.2	1353.8
17.5°	1295.2	1306.9	1300.4	1317.3	1335.5
20°	1269.1	1282.2	1277.0	1293.9	1314.7
22.5°	1243.1	1256.1	1252.2	1269.1	1291.3
25°	1211.9	1226.2	1223.6	1241.8	1263.9
27.5°	1180.6	1194.9	1193.6	1214.5	1235.3
30°	1144.2	1158.5	1161.1	1183.2	1206.7
32.5°	1107.7	1123.4	1124.7	1149.4	1171.5
35°	1067.4	1083.0	1088.2	1114.2	1137.7
37.5°	1027.0	1042.7	1050.5	1075.2	1099.9
40°	984.1	1001.0	1010.1	1036.1	1058.3
42.5°	941.1	958.0	968.5	994.5	1015.3
45°	891.7	911.2	924.2	951.5	971.1
47.5°	843.5	864.3	878.6	904.7	924.2
50°	794.0	816.2	831.8	857.8	876.0
52.5°	744.6	768.0	783.6	808.3	826.6
55°	692.5	714.6	732.9	758.9	774.5
57.5°	640.4	662.6	682.1	705.5	719.8
60°	585.8	609.2	627.4	650.8	661.3
62.5°	528.5	553.2	571.4	589.7	598.8
65°	472.5	497.2	516.8	527.2	533.7
67.5°	415.2	440.0	458.2	463.4	467.3
70°	356.7	381.4	394.4	397.0	400.9
72.5°	298.1	322.8	333.2	333.2	334.5
75°	240.8	265.5	269.4	269.4	272.1
77.5°	184.8	207.0	209.6	209.6	209.6
80°	131.5	148.4	152.3	152.3	151.0
82.5°	83.3	95.0	101.5	96.3	93.7
85°	43.0	50.8	53.4	44.3	41.7
87.5°	13.0	15.6	13.0	7.8	6.5
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	17.09	18.74	17.46	19.05	19.37	17.60	19.24	17.96	19.56	19.87
	3H	18.86	20.35	19.24	20.68	21.04	19.39	20.88	19.77	21.21	21.57
	4H	19.48	20.89	19.88	21.24	21.61	20.02	21.43	20.42	21.78	22.15
	6H	19.89	21.19	20.30	21.55	21.94	20.45	21.75	20.86	22.11	22.50
	8H	19.99	21.23	20.41	21.62	22.02	20.55	21.79	20.97	22.18	22.58
	12H	20.03	21.22	20.46	21.60	22.03	20.59	21.78	21.02	22.16	22.59
4H	2H	17.81	19.22	18.21	19.56	19.94	18.21	19.61	18.60	19.96	20.33
	3H	19.80	20.98	20.21	21.38	21.78	20.22	21.40	20.63	21.79	22.19
	4H	20.56	21.63	20.99	22.04	22.47	20.97	22.04	21.40	22.45	22.88
	6H	21.08	22.01	21.54	22.45	22.91	21.51	22.44	21.96	22.88	23.33
	8H	21.22	22.09	21.68	22.53	22.99	21.65	22.52	22.11	22.96	23.43
	12H	21.29	22.07	21.77	22.55	23.02	21.72	22.50	22.20	22.97	23.44
8H	4H	20.89	21.76	21.35	22.21	22.67	21.26	22.13	21.72	22.57	23.03
	6H	21.53	22.25	22.02	22.74	23.21	21.90	22.62	22.39	23.11	23.58
	8H	21.72	22.37	22.23	22.87	23.36	22.09	22.74	22.60	23.25	23.73
	12H	21.84	22.41	22.35	22.90	23.46	22.20	22.77	22.71	23.26	23.82
12H	4H	20.93	21.71	21.40	22.18	22.65	21.28	22.06	21.76	22.54	23.01
	6H	21.58	22.23	22.09	22.73	23.22	21.94	22.59	22.45	23.09	23.58
	8H	21.82	22.39	22.33	22.88	23.44	22.18	22.75	22.69	23.24	23.80