

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: P1584602

Luminaire Tested: 14CZSP-A-43HE-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584602
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-A-43HE-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

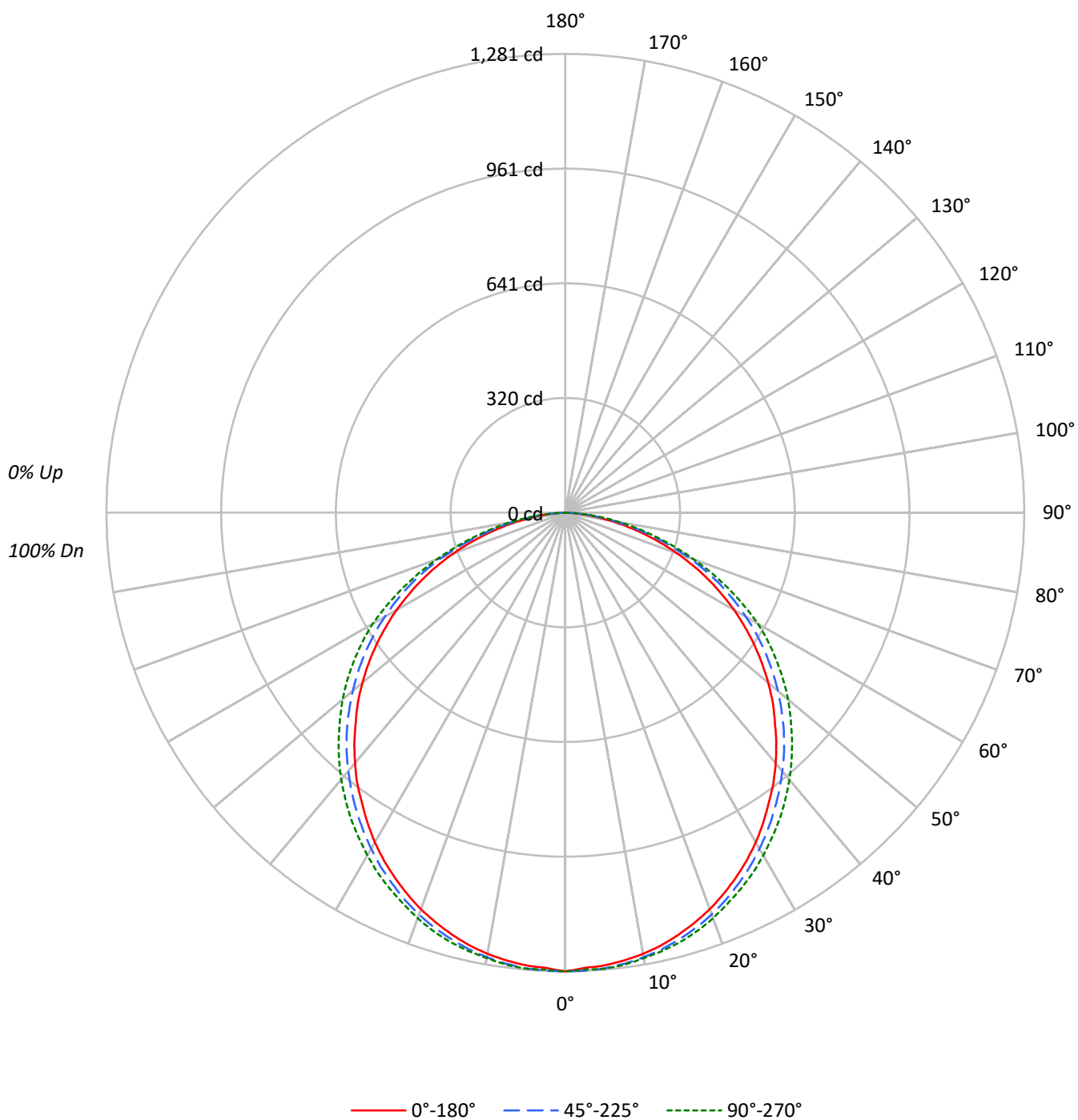
Lumens per Lamp: N/A
Luminaire Lumens: 3704.0 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.9
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			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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4317	4317	4317
5°	4293	4321	4324
10°	4281	4313	4322
15°	4257	4300	4331
20°	4227	4283	4322
25°	4184	4251	4309
30°	4136	4217	4300
35°	4070	4181	4292
40°	4017	4146	4281
45°	3941	4110	4264
50°	3876	4061	4256
55°	3783	4004	4228
60°	3667	3924	4185
65°	3503	3817	4012
70°	3266	3604	3765
75°	2918	3251	3436
80°	2391	2740	3004
85°	1601	2003	2235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	3.3
10°-20°	347.9	9.4
20°-30°	526.7	14.2
30°-40°	636.1	17.2
40°-50°	664.8	17.9
50°-60°	609.2	16.4
60°-70°	470.2	12.7
70°-80°	264.5	7.1
80°-90°	63.3	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°	996.0	26.9
0°-40°	1632.1	44.1
0°-60°	2906.0	78.5
0°-90°	3704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1269	1278	1277	1278	1278	121
15°	1220	1230	1233	1238	1241	344
25°	1125	1135	1143	1149	1159	519
35°	990	1002	1016	1030	1044	620
45°	827	843	862	880	895	639
55°	644	661	682	703	720	575
65°	439	458	479	498	503	434
75°	224	245	250	260	264	238
85°	41	47	52	57	58	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.2	1281.2	1281.2	1281.2	1281.2
2.5°	1272.5	1282.3	1280.1	1283.4	1277.4
5°	1269.2	1278.5	1277.4	1278.5	1278.5
7.5°	1261.0	1270.9	1270.3	1271.9	1273.0
10°	1251.2	1260.5	1260.5	1262.1	1263.2
12.5°	1237.6	1247.4	1248.5	1251.2	1253.4
15°	1220.2	1230.0	1232.7	1237.6	1241.4
17.5°	1200.5	1210.9	1215.2	1220.2	1225.1
20°	1178.7	1188.0	1194.5	1198.3	1205.4
22.5°	1153.1	1163.5	1170.5	1174.4	1182.0
25°	1125.3	1135.1	1143.3	1149.3	1159.1
27.5°	1095.8	1105.7	1115.5	1122.6	1134.0
30°	1063.1	1073.5	1083.9	1094.8	1105.1
32.5°	1027.7	1039.7	1051.1	1063.1	1074.6
35°	989.5	1002.1	1016.3	1029.9	1043.5
37.5°	954.1	965.5	980.3	995.0	1008.6
40°	913.2	925.7	942.6	959.0	973.2
42.5°	871.8	885.4	903.9	919.8	935.0
45°	827.1	843.4	862.5	880.0	894.7
47.5°	785.6	799.8	818.9	838.0	853.2
50°	739.3	755.1	774.7	794.9	811.8
52.5°	692.4	708.8	728.9	749.1	766.5
55°	643.9	660.8	681.5	702.8	719.7
57.5°	594.3	612.3	633.5	654.8	671.7
60°	544.1	562.1	582.3	605.7	621.0
62.5°	491.8	511.9	531.0	552.8	562.1
65°	439.4	458.5	478.7	497.8	503.2
67.5°	386.0	405.6	423.6	436.2	443.2
70°	331.5	352.7	365.8	377.8	382.2
72.5°	277.5	298.8	306.4	317.9	322.2
75°	224.1	244.8	249.7	260.1	263.9
77.5°	172.3	191.4	193.0	205.0	208.3
80°	123.2	138.5	141.2	152.7	154.8
82.5°	79.1	90.0	93.8	103.6	106.9
85°	41.4	47.4	51.8	56.7	57.8
87.5°	13.6	16.9	14.2	14.7	13.6
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	16.79	18.44	17.16	18.76	19.07	17.33	18.98	17.70	19.30	19.61
	3H	18.57	20.06	18.95	20.39	20.75	19.19	20.68	19.57	21.01	21.37
	4H	19.20	20.60	19.59	20.95	21.33	19.86	21.27	20.26	21.61	21.99
	6H	19.60	20.91	20.02	21.27	21.66	20.34	21.64	20.75	22.00	22.40
	8H	19.71	20.95	20.13	21.34	21.74	20.48	21.73	20.91	22.12	22.52
	12H	19.76	20.95	20.19	21.33	21.76	20.57	21.76	20.99	22.14	22.57
4H	2H	17.52	18.93	17.92	19.27	19.65	17.94	19.35	18.34	19.69	20.07
	3H	19.51	20.69	19.92	21.09	21.49	20.01	21.19	20.42	21.59	21.99
	4H	20.27	21.34	20.70	21.75	22.19	20.81	21.88	21.24	22.29	22.73
	6H	20.80	21.73	21.25	22.17	22.63	21.41	22.35	21.86	22.79	23.24
	8H	20.94	21.81	21.40	22.25	22.72	21.60	22.48	22.06	22.92	23.38
	12H	21.02	21.80	21.50	22.28	22.75	21.72	22.51	22.20	22.98	23.45
8H	4H	20.61	21.48	21.07	21.92	22.39	21.08	21.96	21.54	22.40	22.86
	6H	21.25	21.97	21.74	22.46	22.94	21.80	22.52	22.29	23.01	23.49
	8H	21.45	22.10	21.96	22.60	23.09	22.05	22.71	22.56	23.21	23.70
	12H	21.58	22.15	22.08	22.64	23.20	22.24	22.81	22.74	23.30	23.86
12H	4H	20.64	21.43	21.12	21.90	22.37	21.11	21.89	21.59	22.37	22.84
	6H	21.30	21.96	21.81	22.46	22.95	21.83	22.49	22.34	22.99	23.48
	8H	21.55	22.13	22.06	22.62	23.18	22.14	22.72	22.65	23.21	23.77