

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: P1584604

Luminaire Tested: 14CZSP-A-43HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584604
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-L935-S
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

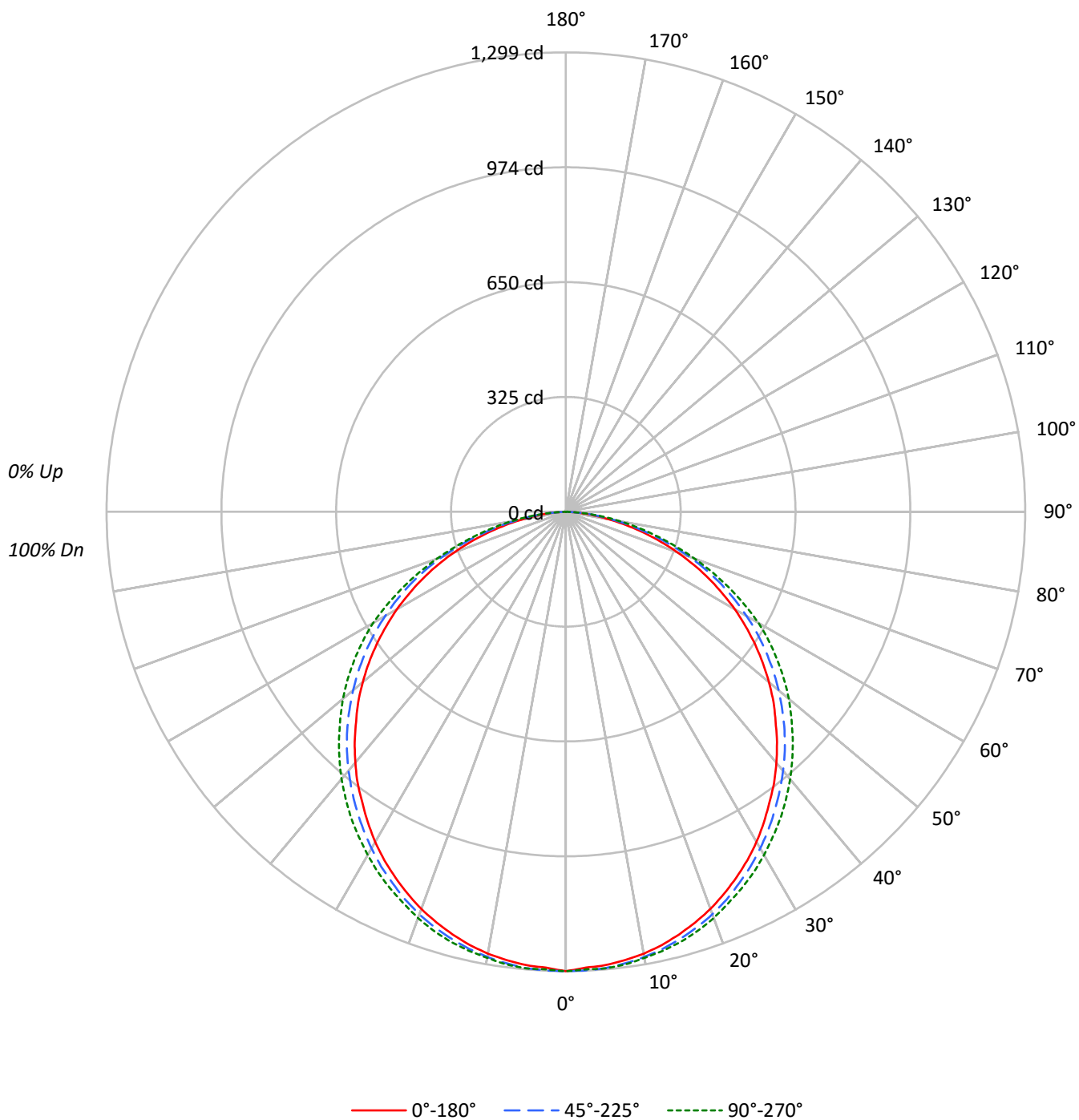
Lumens per Lamp: N/A
Luminaire Lumens: 3756.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4378	4378	4378
5°	4353	4381	4385
10°	4341	4373	4383
15°	4316	4361	4391
20°	4286	4344	4383
25°	4243	4310	4370
30°	4195	4276	4360
35°	4127	4239	4353
40°	4073	4205	4341
45°	3997	4168	4323
50°	3930	4118	4315
55°	3836	4060	4287
60°	3718	3979	4244
65°	3553	3870	4069
70°	3311	3655	3818
75°	2958	3296	3484
80°	2424	2779	3047
85°	1624	2030	2266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.3
10°-20°	352.8	9.4
20°-30°	534.1	14.2
30°-40°	645.0	17.2
40°-50°	674.1	17.9
50°-60°	617.7	16.4
60°-70°	476.8	12.7
70°-80°	268.2	7.1
80°-90°	64.2	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°	1009.9	26.9
0°-40°	1655.0	44.1
0°-60°	2946.8	78.5
0°-90°	3756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1287	1296	1295	1296	1296	122
15°	1237	1247	1250	1255	1259	349
25°	1141	1151	1159	1165	1175	526
35°	1003	1016	1030	1044	1058	629
45°	839	855	875	892	907	648
55°	653	670	691	713	730	583
65°	446	465	485	505	510	440
75°	227	248	253	264	268	241
85°	42	48	52	58	59	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1290.4	1300.3	1298.1	1301.4	1295.3
5°	1287.0	1296.4	1295.3	1296.4	1296.4
7.5°	1278.7	1288.7	1288.1	1289.8	1290.9
10°	1268.8	1278.2	1278.2	1279.9	1281.0
12.5°	1255.0	1264.9	1266.0	1268.8	1271.0
15°	1237.3	1247.2	1250.0	1255.0	1258.8
17.5°	1217.4	1227.9	1232.3	1237.3	1242.3
20°	1195.3	1204.7	1211.3	1215.2	1222.4
22.5°	1169.3	1179.8	1187.0	1190.8	1198.6
25°	1141.1	1151.0	1159.3	1165.4	1175.4
27.5°	1111.2	1121.2	1131.1	1138.3	1149.9
30°	1078.1	1088.6	1099.1	1110.1	1120.6
32.5°	1042.1	1054.3	1065.9	1078.1	1089.7
35°	1003.4	1016.1	1030.5	1044.3	1058.2
37.5°	967.5	979.1	994.0	1009.0	1022.8
40°	926.0	938.7	955.9	972.5	986.8
42.5°	884.0	897.8	916.6	932.7	948.1
45°	838.7	855.3	874.6	892.3	907.2
47.5°	796.7	811.0	830.4	849.7	865.2
50°	749.7	765.7	785.6	806.1	823.2
52.5°	702.1	718.7	739.2	759.6	777.3
55°	652.9	670.1	691.1	712.6	729.8
57.5°	602.6	620.9	642.4	664.0	681.1
60°	551.7	570.0	590.4	614.2	629.7
62.5°	498.7	519.1	538.5	560.6	570.0
65°	445.6	464.9	485.4	504.8	510.3
67.5°	391.4	411.3	429.6	442.3	449.5
70°	336.1	357.7	371.0	383.1	387.5
72.5°	281.4	303.0	310.7	322.3	326.7
75°	227.2	248.2	253.2	263.7	267.6
77.5°	174.7	194.1	195.7	207.9	211.2
80°	124.9	140.4	143.2	154.8	157.0
82.5°	80.2	91.2	95.1	105.0	108.4
85°	42.0	48.1	52.5	57.5	58.6
87.5°	13.8	17.1	14.4	14.9	13.8
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	16.84	18.49	17.21	18.81	19.12	17.38	19.03	17.75	19.35	19.66
	3H	18.62	20.11	18.99	20.44	20.80	19.24	20.73	19.62	21.06	21.42
	4H	19.24	20.65	19.64	21.00	21.37	19.91	21.32	20.31	21.66	22.04
	6H	19.65	20.96	20.06	21.32	21.71	20.38	21.69	20.80	22.05	22.44
	8H	19.76	21.00	20.18	21.39	21.79	20.53	21.78	20.95	22.17	22.56
	12H	19.81	21.00	20.24	21.38	21.81	20.61	21.81	21.04	22.19	22.62
4H	2H	17.57	18.97	17.96	19.32	19.70	17.99	19.40	18.39	19.74	20.12
	3H	19.56	20.74	19.97	21.14	21.54	20.06	21.24	20.47	21.64	22.04
	4H	20.32	21.39	20.75	21.80	22.24	20.86	21.93	21.29	22.34	22.77
	6H	20.85	21.78	21.30	22.22	22.67	21.46	22.39	21.91	22.83	23.29
	8H	20.99	21.86	21.45	22.30	22.77	21.65	22.52	22.11	22.97	23.43
	12H	21.06	21.85	21.54	22.32	22.79	21.77	22.56	22.25	23.03	23.50
8H	4H	20.66	21.53	21.12	21.97	22.44	21.13	22.01	21.59	22.45	22.91
	6H	21.30	22.02	21.79	22.51	22.98	21.85	22.57	22.34	23.06	23.53
	8H	21.50	22.15	22.00	22.65	23.14	22.10	22.75	22.61	23.26	23.74
	12H	21.63	22.20	22.13	22.69	23.25	22.28	22.86	22.79	23.35	23.91
12H	4H	20.69	21.48	21.17	21.95	22.42	21.16	21.94	21.64	22.42	22.89
	6H	21.35	22.00	21.86	22.51	22.99	21.88	22.53	22.39	23.04	23.53
	8H	21.60	22.18	22.11	22.67	23.23	22.19	22.76	22.70	23.25	23.81