

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: P1584600

Luminaire Tested: 14CZSP-A-43HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584600
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

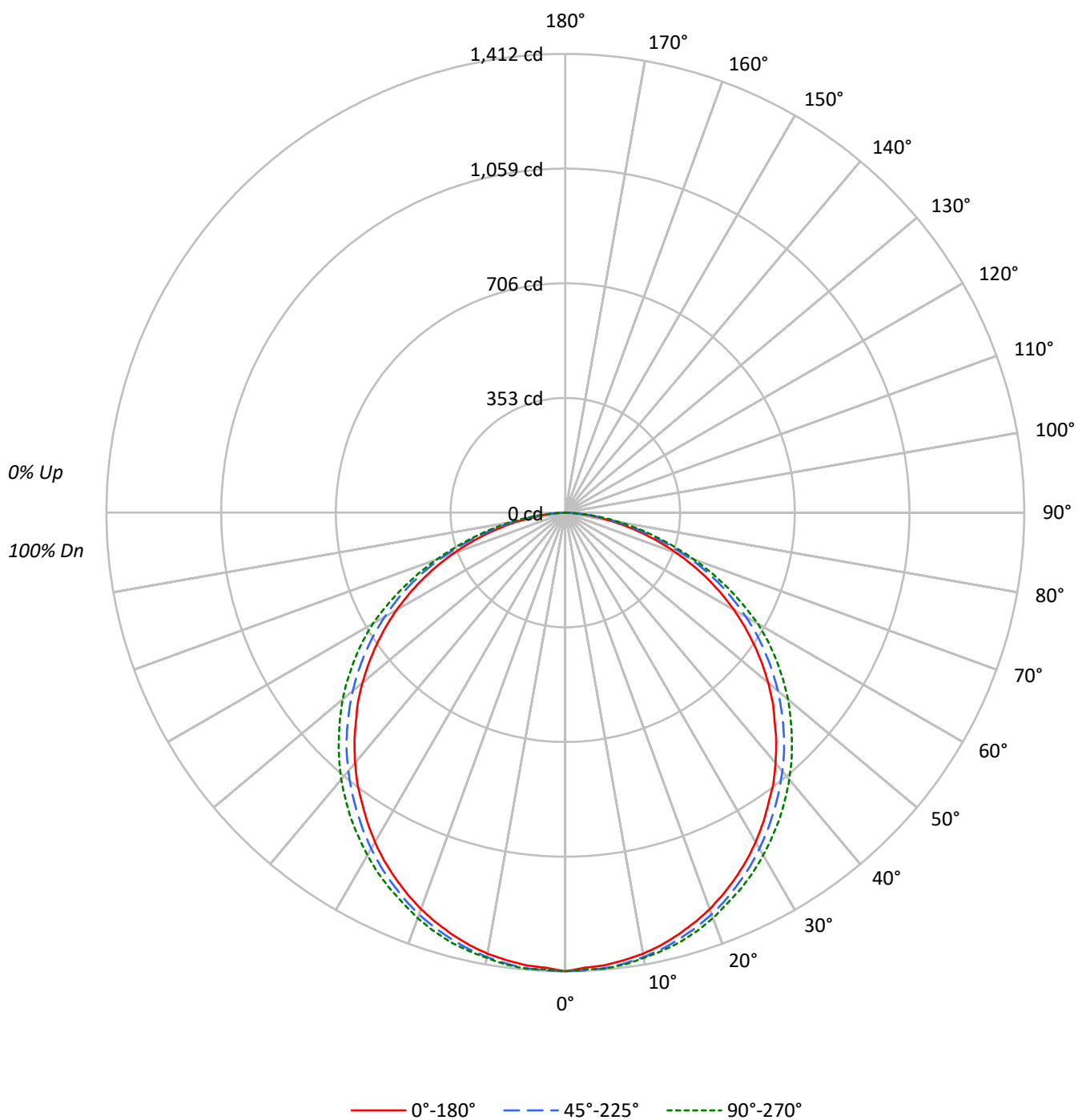
Lumens per Lamp: N/A
Luminaire Lumens: 4081.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4756	4756	4756
5°	4730	4760	4765
10°	4717	4752	4762
15°	4690	4738	4771
20°	4657	4719	4762
25°	4609	4683	4748
30°	4557	4646	4738
35°	4485	4606	4729
40°	4426	4568	4716
45°	4342	4528	4697
50°	4270	4475	4689
55°	4167	4411	4658
60°	4040	4323	4611
65°	3861	4205	4420
70°	3598	3971	4149
75°	3214	3582	3785
80°	2635	3019	3310
85°	1767	2208	2463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4697 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	3.3
10°-20°	383.3	9.4
20°-30°	580.4	14.2
30°-40°	700.8	17.2
40°-50°	732.4	17.9
50°-60°	671.2	16.4
60°-70°	518.1	12.7
70°-80°	291.4	7.1
80°-90°	69.7	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°	1097.3	26.9
0°-40°	1798.2	44.1
0°-60°	3201.8	78.5
0°-90°	4081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1398	1409	1407	1409	1409	133
15°	1344	1355	1358	1364	1368	379
25°	1240	1251	1260	1266	1277	571
35°	1090	1104	1120	1135	1150	683
45°	911	929	950	970	986	704
55°	709	728	751	774	793	634
65°	484	505	527	548	554	478
75°	247	270	275	286	291	262
85°	46	52	57	62	64	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.6	1411.6	1411.6	1411.6	1411.6
2.5°	1402.0	1412.8	1410.4	1414.0	1407.4
5°	1398.4	1408.6	1407.4	1408.6	1408.6
7.5°	1389.4	1400.2	1399.6	1401.4	1402.6
10°	1378.6	1388.8	1388.8	1390.6	1391.8
12.5°	1363.6	1374.4	1375.6	1378.6	1381.0
15°	1344.3	1355.2	1358.2	1363.6	1367.8
17.5°	1322.7	1334.1	1338.9	1344.3	1349.8
20°	1298.7	1308.9	1316.1	1320.3	1328.1
22.5°	1270.5	1281.9	1289.7	1293.9	1302.3
25°	1239.8	1250.6	1259.6	1266.3	1277.1
27.5°	1207.4	1218.2	1229.0	1236.8	1249.4
30°	1171.3	1182.8	1194.2	1206.2	1217.6
32.5°	1132.3	1145.5	1158.1	1171.3	1184.0
35°	1090.3	1104.1	1119.7	1134.7	1149.7
37.5°	1051.2	1063.8	1080.0	1096.3	1111.3
40°	1006.2	1020.0	1038.6	1056.6	1072.2
42.5°	960.5	975.5	995.9	1013.4	1030.2
45°	911.2	929.3	950.3	969.5	985.7
47.5°	865.6	881.2	902.2	923.3	940.1
50°	814.5	832.0	853.6	875.8	894.4
52.5°	762.9	780.9	803.1	825.3	844.6
55°	709.4	728.0	750.9	774.3	792.9
57.5°	654.8	674.6	698.0	721.4	740.1
60°	599.5	619.3	641.5	667.4	684.2
62.5°	541.8	564.0	585.1	609.1	619.3
65°	484.2	505.2	527.4	548.4	554.4
67.5°	425.3	446.9	466.7	480.6	488.4
70°	365.2	388.6	403.1	416.3	421.1
72.5°	305.8	329.2	337.6	350.2	355.0
75°	246.9	269.7	275.1	286.5	290.7
77.5°	189.8	210.8	212.6	225.9	229.5
80°	135.8	152.6	155.6	168.2	170.6
82.5°	87.1	99.1	103.3	114.1	117.7
85°	45.7	52.3	57.1	62.5	63.7
87.5°	15.0	18.6	15.6	16.2	15.0
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	17.13	18.78	17.50	19.10	19.41	17.67	19.32	18.04	19.63	19.95
	3H	18.91	20.40	19.28	20.73	21.09	19.53	21.02	19.90	21.35	21.71
	4H	19.53	20.94	19.93	21.29	21.66	20.20	21.60	20.59	21.95	22.33
	6H	19.94	21.25	20.35	21.61	22.00	20.67	21.98	21.08	22.34	22.73
	8H	20.04	21.29	20.47	21.68	22.08	20.82	22.07	21.24	22.45	22.85
	12H	20.09	21.29	20.52	21.67	22.10	20.90	22.10	21.33	22.48	22.91
4H	2H	17.86	19.26	18.25	19.61	19.98	18.28	19.68	18.67	20.03	20.41
	3H	19.85	21.03	20.26	21.43	21.83	20.35	21.53	20.76	21.93	22.33
	4H	20.61	21.68	21.04	22.09	22.52	21.15	22.21	21.58	22.63	23.06
	6H	21.13	22.07	21.59	22.51	22.96	21.75	22.68	22.20	23.12	23.58
	8H	21.27	22.15	21.73	22.59	23.05	21.94	22.81	22.40	23.25	23.72
	12H	21.35	22.14	21.83	22.61	23.08	22.06	22.85	22.54	23.32	23.79
8H	4H	20.94	21.82	21.40	22.26	22.72	21.42	22.29	21.88	22.74	23.20
	6H	21.58	22.31	22.08	22.80	23.27	22.13	22.86	22.63	23.35	23.82
	8H	21.78	22.44	22.29	22.94	23.43	22.39	23.04	22.90	23.55	24.03
	12H	21.91	22.49	22.42	22.98	23.54	22.57	23.15	23.08	23.64	24.20
12H	4H	20.98	21.77	21.46	22.24	22.71	21.44	22.23	21.92	22.71	23.17
	6H	21.64	22.29	22.15	22.80	23.28	22.17	22.82	22.68	23.33	23.81
	8H	21.89	22.47	22.40	22.96	23.52	22.48	23.05	22.98	23.54	24.10