

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: P1584301

Luminaire Tested: 14CZSP-43HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584301
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-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

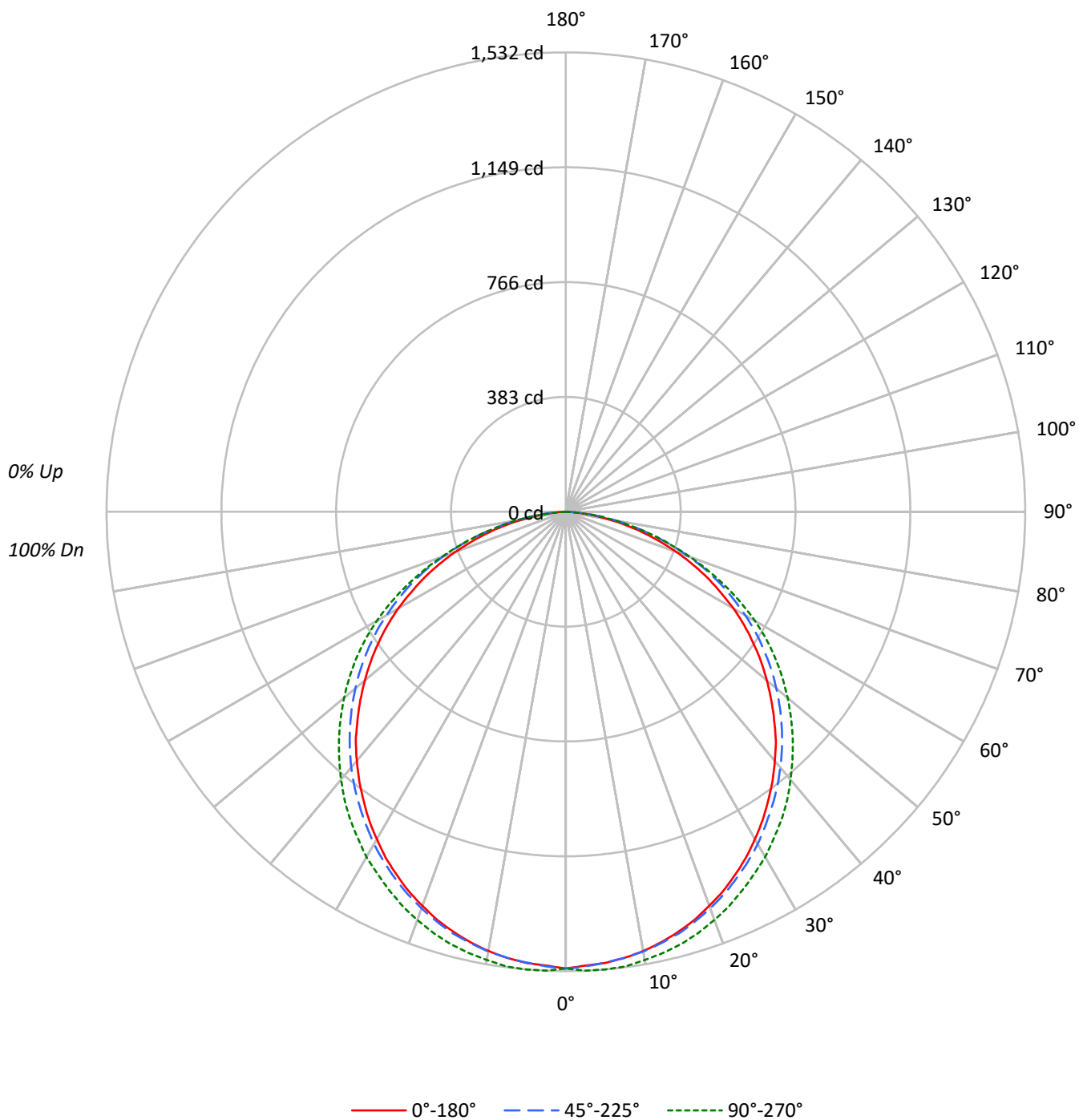
Lumens per Lamp: N/A
Luminaire Lumens: 4388.0 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	5133	5133	5133
5°	5109	5104	5182
10°	5090	5094	5193
15°	5059	5079	5204
20°	5015	5046	5195
25°	4965	5013	5178
30°	4906	4978	5174
35°	4838	4933	5157
40°	4770	4896	5130
45°	4682	4853	5099
50°	4587	4805	5061
55°	4483	4744	5014
60°	4350	4659	4911
65°	4152	4541	4689
70°	3872	4282	4353
75°	3455	3865	3903
80°	2812	3256	3229
85°	1829	2273	1775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	3.3
10°-20°	413.4	9.4
20°-30°	626.2	14.3
30°-40°	756.4	17.2
40°-50°	790.1	18.0
50°-60°	723.5	16.5
60°-70°	555.9	12.7
70°-80°	309.5	7.1
80°-90°	68.5	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°	1183.9	27.0
0°-40°	1940.3	44.2
0°-60°	3454.0	78.7
0°-90°	4388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4388.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1510	1526	1509	1518	1532	143
15°	1450	1464	1456	1470	1492	409
25°	1335	1351	1348	1368	1393	616
35°	1176	1193	1199	1228	1254	736
45°	983	1004	1018	1049	1070	758
55°	763	788	808	836	854	682
65°	521	548	570	581	588	515
75°	265	293	297	297	300	281
85°	47	56	59	49	46	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1523.3	1523.3	1523.3	1523.3	1523.3
2.5°	1514.7	1529.1	1517.6	1521.9	1531.9
5°	1510.4	1526.2	1509.0	1517.6	1531.9
7.5°	1500.4	1514.7	1500.4	1510.4	1529.1
10°	1487.5	1503.3	1488.9	1499.0	1517.6
12.5°	1470.3	1483.2	1473.1	1487.5	1506.1
15°	1450.2	1464.5	1455.9	1470.3	1491.8
17.5°	1427.2	1440.1	1433.0	1451.6	1471.7
20°	1398.5	1412.9	1407.2	1425.8	1448.8
22.5°	1369.9	1384.2	1379.9	1398.5	1422.9
25°	1335.4	1351.2	1348.3	1368.4	1392.8
27.5°	1301.0	1316.8	1315.4	1338.3	1361.3
30°	1260.8	1276.6	1279.5	1303.9	1329.7
32.5°	1220.7	1237.9	1239.3	1266.6	1291.0
35°	1176.2	1193.4	1199.2	1227.9	1253.7
37.5°	1131.7	1149.0	1157.6	1184.8	1212.1
40°	1084.4	1103.1	1113.1	1141.8	1166.2
42.5°	1037.1	1055.7	1067.2	1095.9	1118.8
45°	982.6	1004.1	1018.4	1048.6	1070.1
47.5°	929.5	952.4	968.2	996.9	1018.4
50°	875.0	899.4	916.6	945.3	965.4
52.5°	820.5	846.3	863.5	890.8	910.8
55°	763.1	787.5	807.6	836.3	853.5
57.5°	705.7	730.1	751.6	777.4	793.2
60°	645.5	671.3	691.4	717.2	728.7
62.5°	582.4	609.6	629.7	649.8	659.8
65°	520.7	547.9	569.5	580.9	588.1
67.5°	457.6	484.8	504.9	510.6	515.0
70°	393.0	420.3	434.6	437.5	441.8
72.5°	328.5	355.7	367.2	367.2	368.6
75°	265.4	292.6	296.9	296.9	299.8
77.5°	203.7	228.1	230.9	230.9	230.9
80°	144.9	163.5	167.8	167.8	166.4
82.5°	91.8	104.7	111.9	106.1	103.3
85°	47.3	55.9	58.8	48.8	45.9
87.5°	14.3	17.2	14.3	8.6	7.2
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	17.43	19.07	17.79	19.39	19.70	17.93	19.58	18.30	19.89	20.21
	3H	19.20	20.69	19.58	21.01	21.37	19.73	21.22	20.11	21.55	21.91
	4H	19.82	21.23	20.22	21.57	21.95	20.36	21.77	20.76	22.11	22.49
	6H	20.22	21.53	20.64	21.89	22.28	20.78	22.08	21.19	22.45	22.84
	8H	20.32	21.57	20.75	21.96	22.35	20.89	22.13	21.31	22.52	22.92
	12H	20.37	21.56	20.80	21.94	22.37	20.93	22.12	21.36	22.50	22.93
4H	2H	18.15	19.55	18.55	19.90	20.28	18.54	19.95	18.94	20.30	20.67
	3H	20.14	21.32	20.55	21.72	22.12	20.56	21.73	20.97	22.13	22.53
	4H	20.90	21.96	21.33	22.38	22.81	21.31	22.37	21.74	22.79	23.22
	6H	21.42	22.35	21.87	22.79	23.25	21.85	22.78	22.30	23.22	23.67
	8H	21.55	22.42	22.01	22.87	23.33	21.99	22.86	22.45	23.30	23.76
	12H	21.63	22.41	22.11	22.88	23.35	22.05	22.84	22.53	23.31	23.78
8H	4H	21.23	22.10	21.69	22.54	23.01	21.59	22.46	22.05	22.91	23.37
	6H	21.87	22.59	22.36	23.07	23.55	22.24	22.96	22.73	23.44	23.92
	8H	22.06	22.70	22.57	23.21	23.70	22.43	23.08	22.94	23.58	24.07
	12H	22.18	22.75	22.69	23.24	23.80	22.54	23.11	23.04	23.60	24.16
12H	4H	21.26	22.04	21.74	22.52	22.99	21.62	22.40	22.10	22.88	23.34
	6H	21.91	22.56	22.42	23.07	23.55	22.27	22.92	22.78	23.43	23.91
	8H	22.16	22.73	22.66	23.22	23.78	22.52	23.09	23.02	23.58	24.14