

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: P1584320

Luminaire Tested: 14CZSP-47-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584320
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-47-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

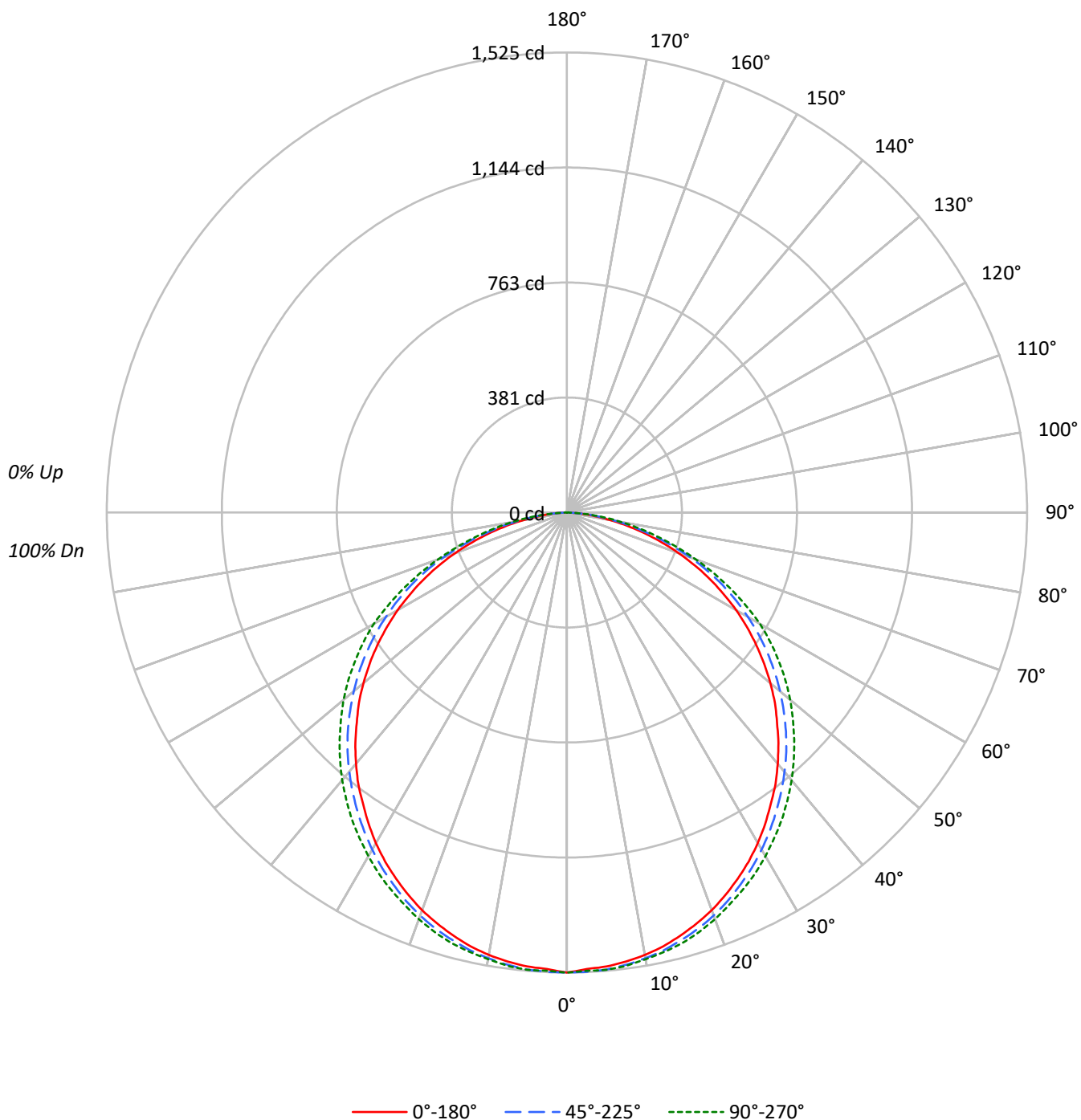
Lumens per Lamp: N/A
Luminaire Lumens: 4409.0 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.8
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		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		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°	5139	5139	5139
5°	5110	5143	5147
10°	5096	5134	5145
15°	5067	5119	5155
20°	5031	5099	5145
25°	4980	5060	5130
30°	4924	5020	5118
35°	4845	4976	5109
40°	4781	4936	5095
45°	4691	4893	5075
50°	4613	4834	5065
55°	4502	4766	5032
60°	4365	4671	4982
65°	4171	4543	4776
70°	3888	4291	4482
75°	3472	3869	4089
80°	2847	3262	3576
85°	1906	2385	2660

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	3.3
10°-20°	414.1	9.4
20°-30°	627.0	14.2
30°-40°	757.2	17.2
40°-50°	791.3	17.9
50°-60°	725.1	16.4
60°-70°	559.7	12.7
70°-80°	314.8	7.1
80°-90°	75.3	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°	1185.5	26.9
0°-40°	1942.7	44.1
0°-60°	3459.1	78.5
0°-90°	4409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1525	1525	1525	1525	1525	
5°	1511	1522	1520	1522	1522	144
15°	1452	1464	1467	1473	1478	410
25°	1340	1351	1361	1368	1380	617
35°	1178	1193	1210	1226	1242	738
45°	984	1004	1027	1047	1065	761
55°	766	787	811	836	857	685
65°	523	546	570	592	599	517
75°	267	291	297	310	314	283
85°	49	56	62	68	69	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1525.1	1525.1	1525.1	1525.1	1525.1
2.5°	1514.7	1526.4	1523.8	1527.7	1520.5
5°	1510.8	1521.8	1520.5	1521.8	1521.8
7.5°	1501.1	1512.7	1512.1	1514.0	1515.3
10°	1489.4	1500.4	1500.4	1502.4	1503.7
12.5°	1473.2	1484.8	1486.1	1489.4	1492.0
15°	1452.4	1464.1	1467.3	1473.2	1477.7
17.5°	1429.0	1441.4	1446.6	1452.4	1458.2
20°	1403.1	1414.1	1421.9	1426.4	1434.9
22.5°	1372.6	1384.9	1393.3	1397.9	1407.0
25°	1339.5	1351.2	1360.9	1368.0	1379.7
27.5°	1304.4	1316.1	1327.8	1336.2	1349.9
30°	1265.5	1277.8	1290.2	1303.1	1315.5
32.5°	1223.3	1237.6	1251.2	1265.5	1279.1
35°	1177.9	1192.8	1209.7	1225.9	1242.1
37.5°	1135.7	1149.3	1166.8	1184.4	1200.6
40°	1087.0	1101.9	1122.1	1141.5	1158.4
42.5°	1037.7	1053.9	1076.0	1094.8	1113.0
45°	984.5	1004.0	1026.7	1047.4	1065.0
47.5°	935.2	952.0	974.8	997.5	1015.6
50°	880.0	898.8	922.2	946.2	966.3
52.5°	824.2	843.7	867.7	891.7	912.5
55°	766.4	786.6	811.2	836.5	856.6
57.5°	707.4	728.8	754.1	779.4	799.5
60°	647.7	669.1	693.1	721.0	739.2
62.5°	585.4	609.4	632.1	658.1	669.1
65°	523.1	545.8	569.8	592.5	599.0
67.5°	459.5	482.8	504.2	519.2	527.6
70°	394.6	419.9	435.5	449.7	454.9
72.5°	330.3	355.6	364.7	378.3	383.5
75°	266.7	291.4	297.2	309.6	314.1
77.5°	205.1	227.8	229.7	244.0	247.9
80°	146.7	164.8	168.1	181.7	184.3
82.5°	94.1	107.1	111.6	123.3	127.2
85°	49.3	56.5	61.7	67.5	68.8
87.5°	16.2	20.1	16.9	17.5	16.2
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	17.40	19.05	17.76	19.36	19.68	17.94	19.59	18.30	19.90	20.22
	3H	19.18	20.67	19.55	20.99	21.35	19.80	21.29	20.17	21.62	21.98
	4H	19.80	21.21	20.20	21.56	21.93	20.46	21.87	20.86	22.22	22.59
	6H	20.21	21.51	20.62	21.88	22.27	20.94	22.25	21.35	22.61	23.00
	8H	20.31	21.56	20.74	21.95	22.35	21.09	22.33	21.51	22.72	23.12
	12H	20.36	21.56	20.79	21.94	22.37	21.17	22.36	21.60	22.75	23.17
4H	2H	18.12	19.53	18.52	19.88	20.25	18.55	19.95	18.94	20.30	20.68
	3H	20.12	21.30	20.53	21.70	22.10	20.62	21.80	21.03	22.19	22.59
	4H	20.88	21.94	21.31	22.36	22.79	21.41	22.48	21.84	22.89	23.33
	6H	21.40	22.34	21.86	22.78	23.23	22.02	22.95	22.47	23.39	23.84
	8H	21.54	22.42	22.00	22.86	23.32	22.21	23.08	22.67	23.52	23.99
	12H	21.62	22.41	22.10	22.88	23.35	22.33	23.11	22.81	23.59	24.06
8H	4H	21.21	22.09	21.67	22.53	22.99	21.69	22.56	22.15	23.01	23.47
	6H	21.85	22.58	22.35	23.07	23.54	22.40	23.13	22.90	23.62	24.09
	8H	22.05	22.70	22.56	23.21	23.69	22.66	23.31	23.17	23.82	24.30
	12H	22.18	22.76	22.69	23.25	23.81	22.84	23.42	23.35	23.91	24.47
12H	4H	21.25	22.04	21.73	22.51	22.98	21.71	22.50	22.19	22.97	23.44
	6H	21.91	22.56	22.42	23.07	23.55	22.44	23.09	22.95	23.60	24.08
	8H	22.16	22.73	22.67	23.22	23.78	22.75	23.32	23.25	23.81	24.37