

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: P1584281

Luminaire Tested: 14CZSP-42-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-42-L850
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

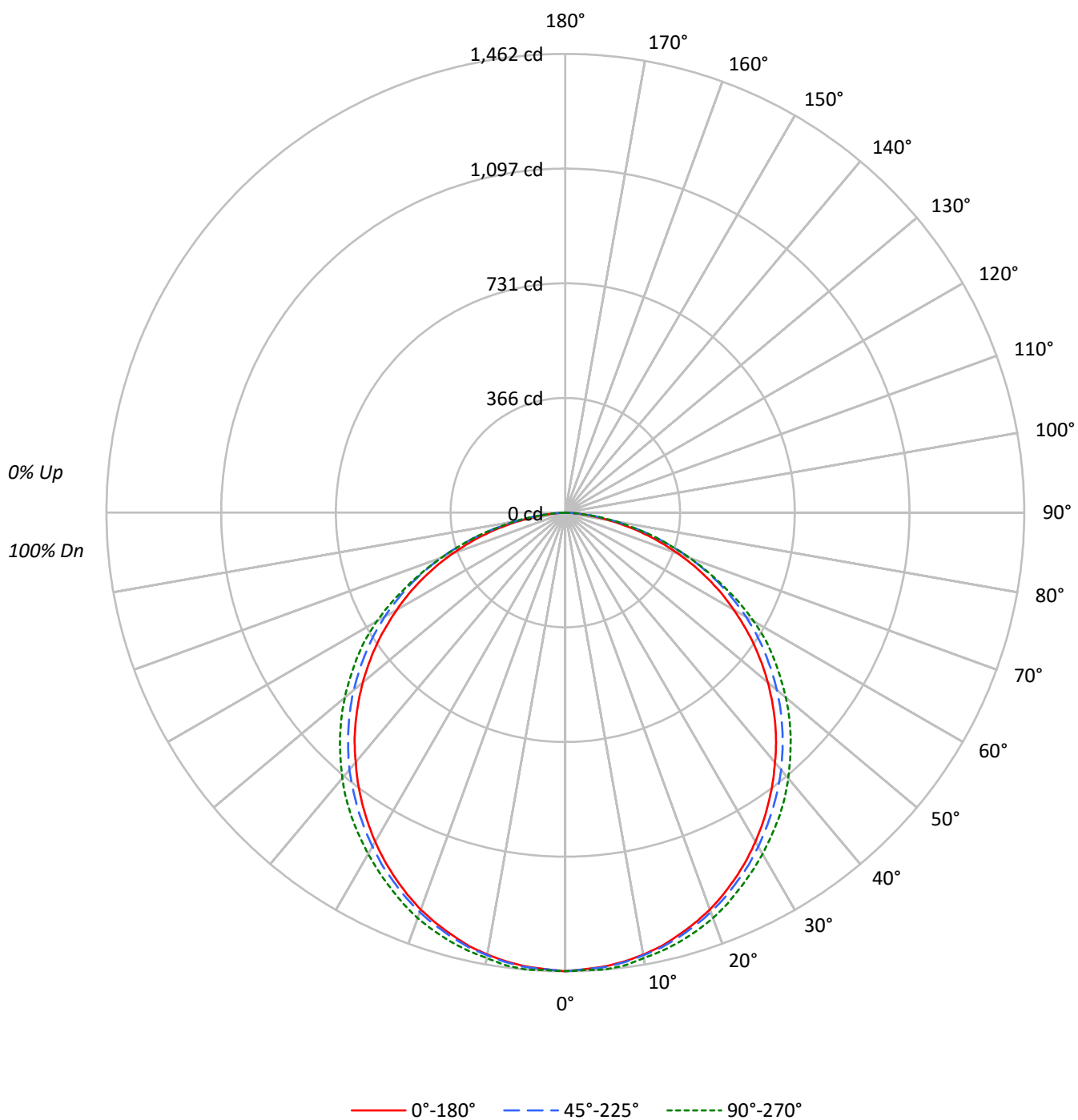
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4217.0 lumens
Efficiency: N/A
Efficacy: 148.0 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): 28.5
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

TEST NUMBER: P1584281
CATALOG NUMBER: 14CZSP-42-L850

Luminous Intensity Polar Plot



TEST NUMBER: P1584281

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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	53		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	29		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°	4925	4925	4925
5°	4910	4918	4943
10°	4894	4902	4932
15°	4863	4885	4937
20°	4828	4860	4931
25°	4773	4820	4904
30°	4713	4781	4888
35°	4644	4742	4880
40°	4570	4707	4861
45°	4504	4659	4838
50°	4417	4614	4810
55°	4311	4553	4767
60°	4179	4482	4676
65°	4017	4356	4446
70°	3769	4139	4139
75°	3385	3760	3776
80°	2790	3178	3178
85°	1933	2320	2030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4838 cd/sqm

TEST NUMBER: P1584281

CATALOG NUMBER: 14CZSP-42-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.3
10°-20°	396.5	9.4
20°-30°	600.1	14.2
30°-40°	724.4	17.2
40°-50°	756.8	17.9
50°-60°	693.3	16.4
60°-70°	534.5	12.7
70°-80°	301.6	7.2
80°-90°	71.4	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°	1135.0	26.9
0°-40°	1859.4	44.1
0°-60°	3309.5	78.5
0°-90°	4217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1452	1462	1454	1456	1462	138
15°	1394	1403	1400	1412	1415	393
25°	1284	1295	1296	1314	1319	592
35°	1129	1144	1153	1178	1186	706
45°	945	961	978	1006	1015	729
55°	734	753	775	804	811	656
65°	504	520	546	565	558	498
75°	260	280	289	296	290	276
85°	50	56	60	64	52	63
90°	0	0	0	0	0	

TEST NUMBER: P1584281

CATALOG NUMBER: 14CZSP-42-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.5	1461.5	1461.5	1461.5	1461.5
2.5°	1456.5	1466.5	1456.5	1461.5	1459.0
5°	1451.5	1461.5	1454.0	1456.5	1461.5
7.5°	1442.7	1452.7	1445.2	1449.0	1455.2
10°	1430.2	1440.2	1432.7	1439.0	1441.5
12.5°	1415.2	1424.0	1419.0	1426.5	1430.2
15°	1394.0	1402.7	1400.2	1411.5	1415.2
17.5°	1371.5	1381.5	1379.0	1392.7	1396.5
20°	1346.5	1355.2	1355.2	1367.7	1375.2
22.5°	1316.5	1326.5	1327.7	1341.5	1349.0
25°	1283.9	1295.2	1296.5	1314.0	1319.0
27.5°	1248.9	1260.2	1265.2	1283.9	1288.9
30°	1211.4	1222.7	1228.9	1250.2	1256.4
32.5°	1171.4	1185.2	1191.4	1215.2	1221.4
35°	1128.9	1143.9	1152.7	1177.7	1186.4
37.5°	1085.2	1100.2	1111.4	1137.7	1147.7
40°	1038.9	1055.2	1070.2	1096.4	1105.2
42.5°	993.9	1010.2	1023.9	1051.4	1060.2
45°	945.1	961.4	977.7	1006.4	1015.2
47.5°	893.9	911.4	930.1	956.4	967.6
50°	842.6	860.1	880.1	907.6	917.6
52.5°	788.9	807.6	827.6	856.4	863.9
55°	733.9	752.6	775.1	803.9	811.4
57.5°	677.6	697.6	721.4	748.9	756.4
60°	620.1	640.1	665.1	691.4	693.9
62.5°	563.8	581.3	606.3	631.3	627.6
65°	503.8	520.1	546.3	565.1	557.6
67.5°	443.8	461.3	485.1	498.8	488.8
70°	382.6	401.3	420.1	430.1	420.1
72.5°	321.3	341.3	355.1	361.3	352.6
75°	260.0	280.0	288.8	296.3	290.0
77.5°	201.3	220.0	223.8	232.5	223.8
80°	143.8	161.3	163.8	172.5	163.8
82.5°	92.5	103.8	108.8	116.3	107.5
85°	50.0	56.3	60.0	63.8	52.5
87.5°	17.5	20.0	17.5	15.0	6.3
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1584281
CATALOG NUMBER: 14CZSP-42-L850

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	17.25	18.90	17.62	19.22	19.53	17.80	19.45	18.16	19.76	20.07
	3H	19.04	20.53	19.42	20.86	21.22	19.60	21.10	19.98	21.42	21.78
	4H	19.68	21.09	20.08	21.43	21.81	20.25	21.65	20.65	22.00	22.38
	6H	20.10	21.41	20.51	21.77	22.16	20.69	21.99	21.10	22.36	22.75
	8H	20.21	21.46	20.63	21.85	22.24	20.81	22.06	21.23	22.44	22.84
	12H	20.27	21.46	20.69	21.84	22.27	20.87	22.06	21.30	22.44	22.87
4H	2H	17.98	19.38	18.38	19.73	20.11	18.40	19.81	18.80	20.16	20.53
	3H	19.98	21.17	20.39	21.56	21.96	20.44	21.62	20.85	22.02	22.42
	4H	20.75	21.82	21.18	22.23	22.67	21.22	22.29	21.65	22.70	23.14
	6H	21.30	22.23	21.75	22.67	23.13	21.79	22.72	22.24	23.16	23.62
	8H	21.44	22.32	21.90	22.76	23.22	21.95	22.83	22.41	23.27	23.73
	12H	21.53	22.31	22.01	22.79	23.26	22.04	22.83	22.52	23.30	23.77
8H	4H	21.10	21.97	21.55	22.41	22.88	21.51	22.38	21.97	22.82	23.29
	6H	21.75	22.48	22.25	22.97	23.44	22.19	22.92	22.68	23.40	23.88
	8H	21.96	22.61	22.47	23.12	23.60	22.42	23.07	22.93	23.58	24.06
	12H	22.10	22.67	22.60	23.16	23.72	22.57	23.15	23.08	23.64	24.20
12H	4H	21.13	21.92	21.61	22.39	22.86	21.53	22.32	22.01	22.79	23.26
	6H	21.81	22.46	22.32	22.97	23.45	22.23	22.88	22.74	23.39	23.87
	8H	22.07	22.64	22.57	23.13	23.69	22.52	23.09	23.02	23.58	24.14