

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: P1584259

Luminaire Tested: 14CZSP-37HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584259
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-37HE-L845
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

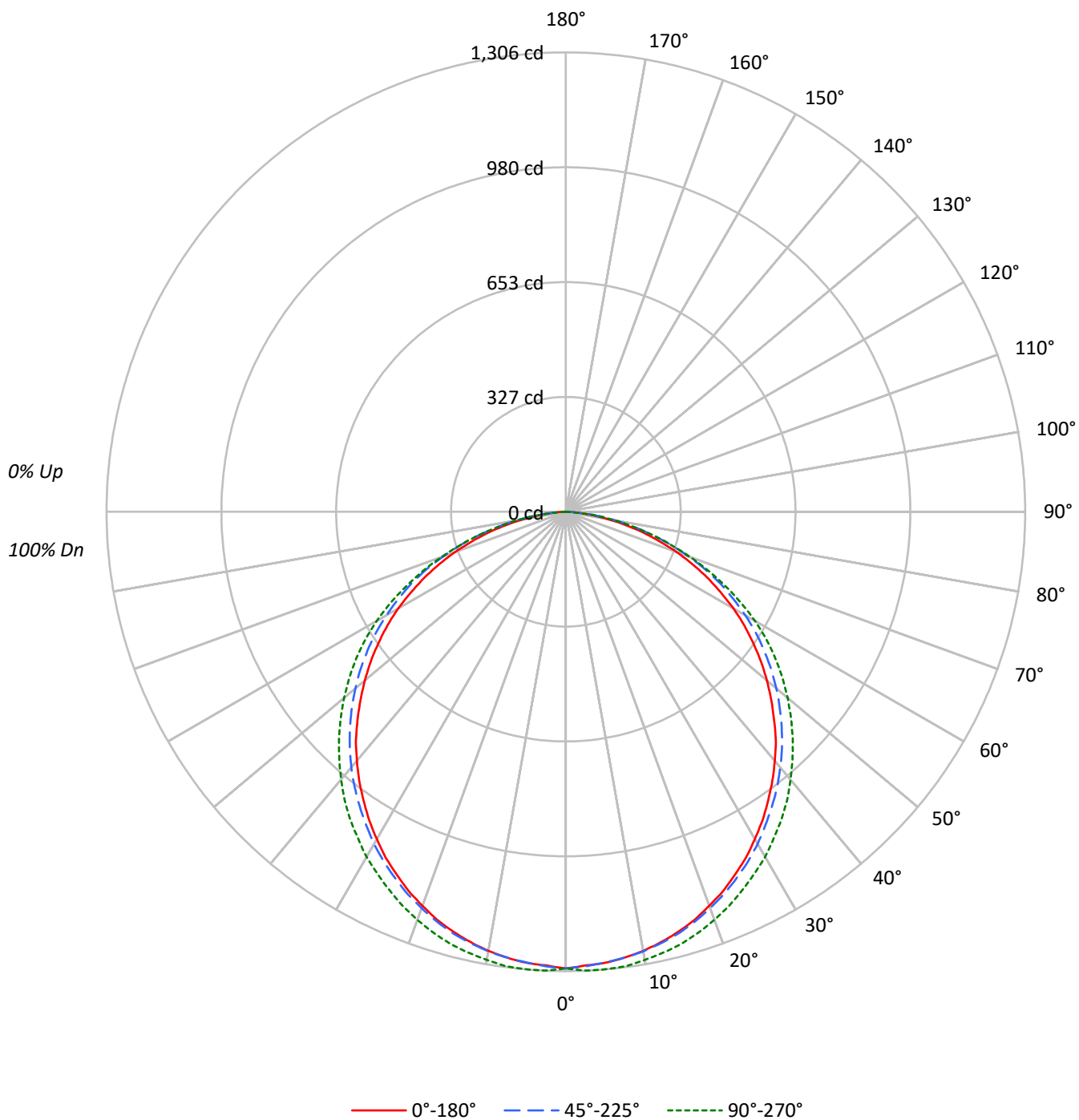
Lumens per Lamp: N/A
Luminaire Lumens: 3740.0 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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°	4375	4375	4375
5°	4355	4351	4416
10°	4338	4342	4426
15°	4312	4329	4436
20°	4274	4301	4428
25°	4232	4273	4414
30°	4181	4243	4410
35°	4124	4204	4395
40°	4066	4173	4372
45°	3991	4136	4346
50°	3910	4095	4313
55°	3821	4044	4273
60°	3708	3971	4186
65°	3538	3870	3997
70°	3300	3649	3710
75°	2945	3295	3326
80°	2396	2775	2752
85°	1558	1937	1512

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.3
10°-20°	352.4	9.4
20°-30°	533.7	14.3
30°-40°	644.7	17.2
40°-50°	673.4	18.0
50°-60°	616.7	16.5
60°-70°	473.8	12.7
70°-80°	263.8	7.1
80°-90°	58.4	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°	1009.0	27.0
0°-40°	1653.7	44.2
0°-60°	2943.9	78.7
0°-90°	3740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1287	1301	1286	1294	1306	122
15°	1236	1248	1241	1253	1272	349
25°	1138	1152	1149	1166	1187	525
35°	1002	1017	1022	1046	1068	627
45°	838	856	868	894	912	646
55°	650	671	688	713	727	581
65°	444	467	485	495	501	439
75°	226	249	253	253	256	240
85°	40	48	50	42	39	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.4	1298.4	1298.4	1298.4	1298.4
2.5°	1291.0	1303.3	1293.5	1297.2	1305.7
5°	1287.4	1300.8	1286.2	1293.5	1305.7
7.5°	1278.8	1291.0	1278.8	1287.4	1303.3
10°	1267.8	1281.3	1269.0	1277.6	1293.5
12.5°	1253.1	1264.1	1255.6	1267.8	1283.7
15°	1236.0	1248.3	1240.9	1253.1	1271.5
17.5°	1216.5	1227.5	1221.4	1237.3	1254.4
20°	1192.0	1204.2	1199.4	1215.2	1234.8
22.5°	1167.6	1179.8	1176.1	1192.0	1212.8
25°	1138.2	1151.7	1149.2	1166.3	1187.1
27.5°	1108.9	1122.3	1121.1	1140.7	1160.2
30°	1074.6	1088.1	1090.5	1111.3	1133.3
32.5°	1040.4	1055.1	1056.3	1079.5	1100.3
35°	1002.5	1017.2	1022.1	1046.5	1068.5
37.5°	964.6	979.3	986.6	1009.9	1033.1
40°	924.3	940.2	948.7	973.2	994.0
42.5°	883.9	899.8	909.6	934.1	953.6
45°	837.5	855.8	868.0	893.7	912.0
47.5°	792.2	811.8	825.2	849.7	868.0
50°	745.8	766.6	781.2	805.7	822.8
52.5°	699.3	721.3	736.0	759.2	776.3
55°	650.4	671.2	688.3	712.8	727.4
57.5°	601.5	622.3	640.6	662.6	676.1
60°	550.2	572.2	589.3	611.3	621.1
62.5°	496.4	519.6	536.7	553.8	562.4
65°	443.8	467.0	485.4	495.1	501.3
67.5°	390.0	413.2	430.3	435.2	438.9
70°	335.0	358.2	370.4	372.9	376.6
72.5°	280.0	303.2	313.0	313.0	314.2
75°	226.2	249.4	253.1	253.1	255.5
77.5°	173.6	194.4	196.8	196.8	196.8
80°	123.5	139.4	143.0	143.0	141.8
82.5°	78.2	89.2	95.4	90.5	88.0
85°	40.3	47.7	50.1	41.6	39.1
87.5°	12.2	14.7	12.2	7.3	6.1
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	16.87	18.52	17.24	18.83	19.15	17.38	19.03	17.74	19.34	19.65
	3H	18.64	20.13	19.02	20.46	20.82	19.18	20.67	19.55	20.99	21.35
	4H	19.27	20.67	19.66	21.02	21.39	19.81	21.21	20.20	21.56	21.93
	6H	19.67	20.97	20.08	21.34	21.73	20.23	21.53	20.64	21.89	22.28
	8H	19.77	21.01	20.19	21.40	21.80	20.33	21.58	20.76	21.96	22.36
	12H	19.81	21.00	20.24	21.39	21.81	20.37	21.56	20.80	21.95	22.37
4H	2H	17.59	19.00	17.99	19.35	19.72	17.99	19.39	18.39	19.74	20.12
	3H	19.59	20.76	20.00	21.16	21.56	20.00	21.18	20.41	21.58	21.98
	4H	20.34	21.41	20.77	21.82	22.26	20.75	21.82	21.18	22.23	22.67
	6H	20.87	21.80	21.32	22.24	22.69	21.29	22.22	21.74	22.66	23.12
	8H	21.00	21.87	21.46	22.31	22.78	21.43	22.30	21.89	22.74	23.21
	12H	21.07	21.85	21.55	22.33	22.80	21.50	22.28	21.98	22.76	23.22
8H	4H	20.68	21.55	21.14	21.99	22.45	21.04	21.91	21.50	22.35	22.82
	6H	21.31	22.03	21.80	22.52	22.99	21.68	22.40	22.17	22.89	23.36
	8H	21.50	22.15	22.01	22.65	23.14	21.87	22.52	22.38	23.03	23.51
	12H	21.62	22.20	22.13	22.69	23.25	21.98	22.55	22.49	23.04	23.60
12H	4H	20.71	21.49	21.19	21.96	22.43	21.06	21.85	21.54	22.32	22.79
	6H	21.36	22.01	21.87	22.51	23.00	21.72	22.37	22.23	22.87	23.36
	8H	21.60	22.17	22.11	22.67	23.23	21.96	22.53	22.47	23.02	23.58