

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: P1584253

Luminaire Tested: 14CZSP-37HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584253
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-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

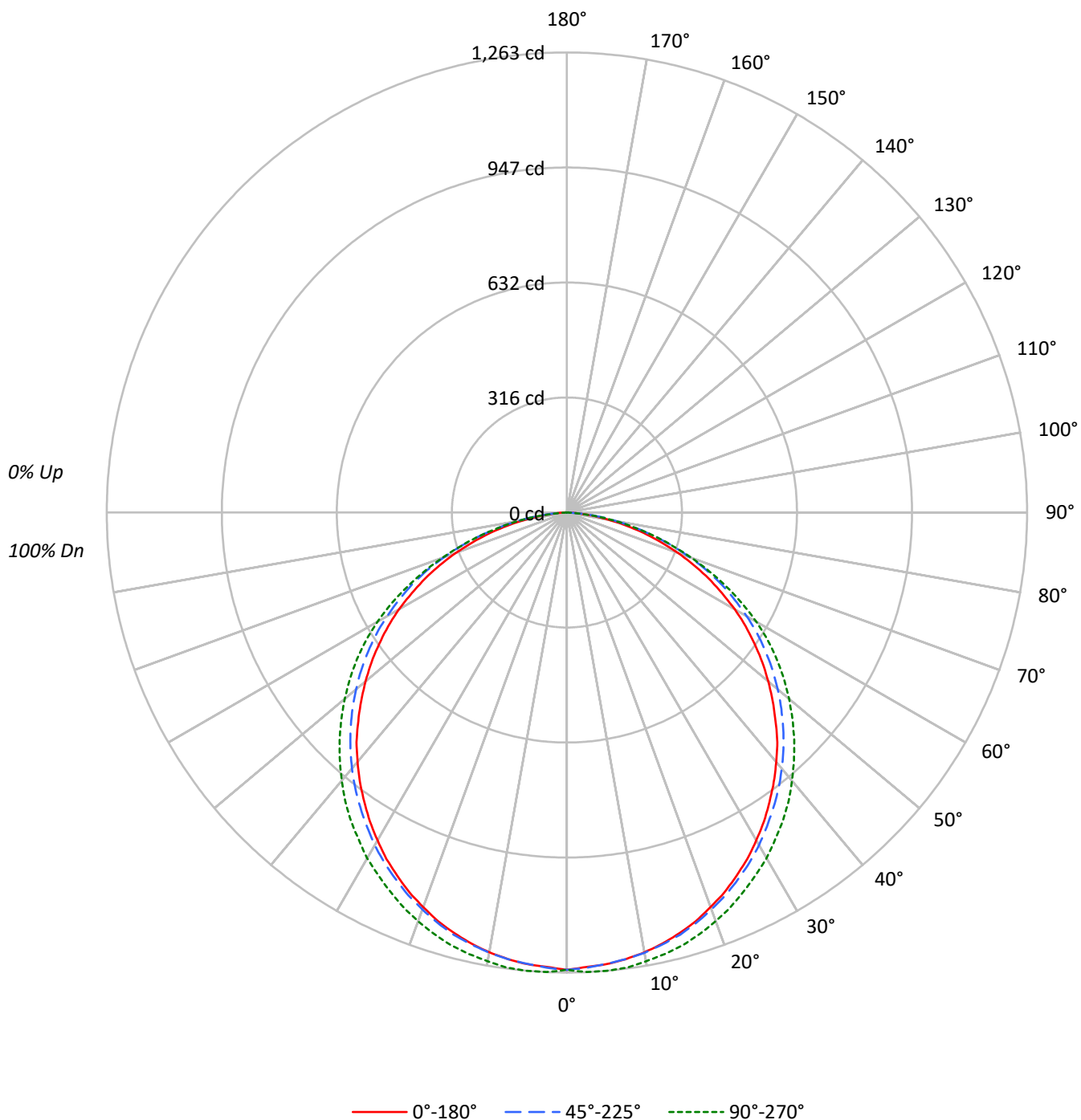
Lumens per Lamp: N/A
Luminaire Lumens: 3617.0 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4231	4231	4231
5°	4211	4207	4271
10°	4195	4199	4280
15°	4170	4186	4290
20°	4134	4159	4282
25°	4093	4132	4269
30°	4044	4104	4265
35°	3988	4066	4251
40°	3932	4036	4228
45°	3859	4000	4203
50°	3781	3960	4171
55°	3695	3911	4133
60°	3586	3841	4048
65°	3422	3743	3865
70°	3192	3530	3588
75°	2847	3187	3217
80°	2317	2684	2662
85°	1508	1875	1461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.3
10°-20°	340.8	9.4
20°-30°	516.1	14.3
30°-40°	623.5	17.2
40°-50°	651.3	18.0
50°-60°	596.4	16.5
60°-70°	458.3	12.7
70°-80°	255.2	7.1
80°-90°	56.5	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°	975.9	27.0
0°-40°	1599.3	44.2
0°-60°	2847.1	78.7
0°-90°	3617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1245	1258	1244	1251	1263	118
15°	1195	1207	1200	1212	1230	337
25°	1101	1114	1111	1128	1148	507
35°	970	984	988	1012	1033	607
45°	810	828	840	864	882	625
55°	629	649	666	689	704	562
65°	429	452	469	479	485	424
75°	219	241	245	245	247	232
85°	39	46	48	40	38	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.7	1255.7	1255.7	1255.7	1255.7
2.5°	1248.6	1260.4	1250.9	1254.5	1262.8
5°	1245.0	1258.0	1243.9	1250.9	1262.8
7.5°	1236.8	1248.6	1236.8	1245.0	1260.4
10°	1226.1	1239.1	1227.3	1235.6	1250.9
12.5°	1211.9	1222.6	1214.3	1226.1	1241.5
15°	1195.4	1207.2	1200.1	1211.9	1229.7
17.5°	1176.5	1187.1	1181.2	1196.6	1213.1
20°	1152.8	1164.6	1159.9	1175.3	1194.2
22.5°	1129.2	1141.0	1137.4	1152.8	1172.9
25°	1100.8	1113.8	1111.4	1128.0	1148.1
27.5°	1072.4	1085.4	1084.2	1103.2	1122.1
30°	1039.3	1052.3	1054.7	1074.8	1096.1
32.5°	1006.2	1020.4	1021.6	1044.0	1064.1
35°	969.5	983.7	988.5	1012.1	1033.4
37.5°	932.9	947.1	954.2	976.6	999.1
40°	893.9	909.2	917.5	941.2	961.3
42.5°	854.9	870.2	879.7	903.3	922.3
45°	809.9	827.7	839.5	864.3	882.0
47.5°	766.2	785.1	798.1	821.7	839.5
50°	721.2	741.3	755.5	779.2	795.7
52.5°	676.3	697.6	711.8	734.3	750.8
55°	629.0	649.1	665.7	689.3	703.5
57.5°	581.7	601.8	619.6	640.8	653.9
60°	532.1	553.4	569.9	591.2	600.6
62.5°	480.0	502.5	519.1	535.6	543.9
65°	429.2	451.7	469.4	478.9	484.8
67.5°	377.2	399.6	416.2	420.9	424.5
70°	324.0	346.4	358.3	360.6	364.2
72.5°	270.8	293.2	302.7	302.7	303.9
75°	218.7	241.2	244.8	244.8	247.1
77.5°	167.9	188.0	190.4	190.4	190.4
80°	119.4	134.8	138.3	138.3	137.2
82.5°	75.7	86.3	92.2	87.5	85.1
85°	39.0	46.1	48.5	40.2	37.8
87.5°	11.8	14.2	11.8	7.1	5.9
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	16.76	18.40	17.12	18.72	19.03	17.26	18.91	17.63	19.22	19.54
	3H	18.53	20.02	18.90	20.34	20.70	19.06	20.55	19.44	20.88	21.24
	4H	19.15	20.55	19.55	20.90	21.28	19.69	21.09	20.09	21.44	21.82
	6H	19.55	20.85	19.96	21.22	21.61	20.11	21.41	20.52	21.78	22.17
	8H	19.65	20.90	20.08	21.28	21.68	20.22	21.46	20.64	21.85	22.25
	12H	19.70	20.89	20.13	21.27	21.70	20.26	21.45	20.69	21.83	22.26
4H	2H	17.48	18.88	17.88	19.23	19.60	17.87	19.28	18.27	19.62	20.00
	3H	19.47	20.65	19.88	21.04	21.44	19.89	21.06	20.29	21.46	21.86
	4H	20.23	21.29	20.66	21.71	22.14	20.64	21.70	21.07	22.11	22.55
	6H	20.75	21.68	21.20	22.12	22.57	21.18	22.11	21.63	22.55	23.00
	8H	20.88	21.75	21.34	22.19	22.66	21.32	22.19	21.78	22.63	23.09
	12H	20.96	21.74	21.43	22.21	22.68	21.38	22.16	21.86	22.64	23.11
8H	4H	20.56	21.43	21.02	21.87	22.34	20.92	21.79	21.38	22.23	22.70
	6H	21.19	21.92	21.69	22.40	22.88	21.56	22.29	22.06	22.77	23.25
	8H	21.39	22.03	21.89	22.54	23.02	21.76	22.41	22.27	22.91	23.40
	12H	21.51	22.08	22.01	22.57	23.13	21.86	22.44	22.37	22.93	23.49
12H	4H	20.59	21.37	21.07	21.85	22.32	20.95	21.73	21.43	22.20	22.67
	6H	21.24	21.89	21.75	22.40	22.88	21.60	22.25	22.11	22.76	23.24
	8H	21.49	22.06	21.99	22.55	23.11	21.85	22.42	22.35	22.91	23.47