

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: P1584552

Luminaire Tested: 14CZSP-A-37HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584552
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-A-37HE-L830-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

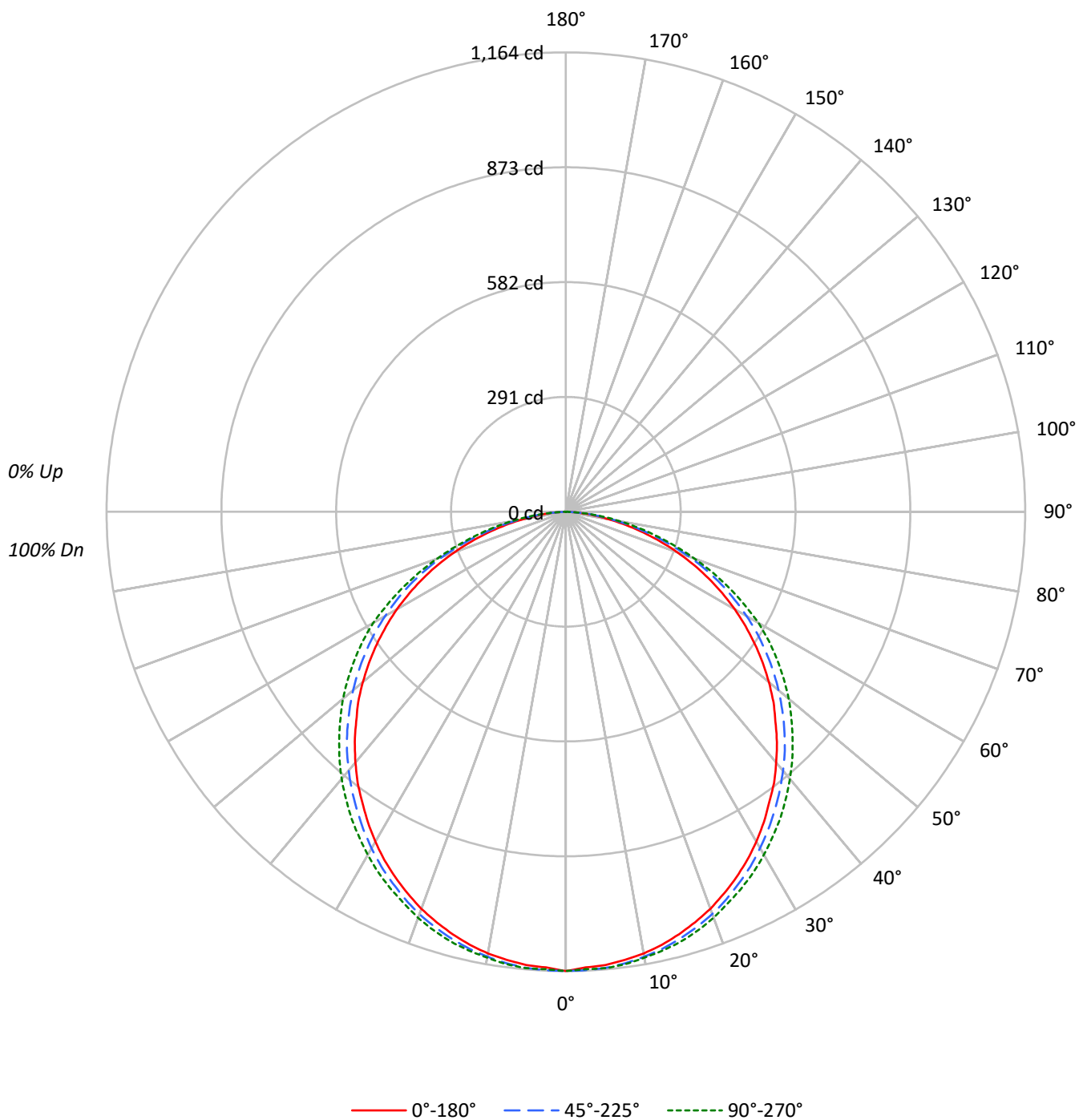
Lumens per Lamp: N/A
Luminaire Lumens: 3364.0 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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		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°	3921	3921	3921
5°	3899	3924	3927
10°	3888	3917	3926
15°	3866	3905	3933
20°	3839	3890	3926
25°	3800	3860	3914
30°	3757	3830	3905
35°	3697	3797	3898
40°	3648	3766	3888
45°	3579	3733	3872
50°	3520	3688	3865
55°	3436	3636	3840
60°	3330	3564	3801
65°	3182	3466	3644
70°	2966	3273	3420
75°	2649	2953	3121
80°	2171	2488	2728
85°	1454	1817	2030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.3
10°-20°	315.9	9.4
20°-30°	478.4	14.2
30°-40°	577.7	17.2
40°-50°	603.7	17.9
50°-60°	553.2	16.4
60°-70°	427.1	12.7
70°-80°	240.2	7.1
80°-90°	57.5	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°	904.5	26.9
0°-40°	1482.3	44.1
0°-60°	2639.2	78.5
0°-90°	3364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1153	1161	1160	1161	1161	109
15°	1108	1117	1120	1124	1128	313
25°	1022	1031	1038	1044	1053	471
35°	899	910	923	935	948	563
45°	751	766	783	799	812	580
55°	585	600	619	638	654	522
65°	399	416	435	452	457	394
75°	204	222	227	236	240	216
85°	38	43	47	52	52	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.6	1163.6	1163.6	1163.6	1163.6
2.5°	1155.7	1164.6	1162.6	1165.6	1160.1
5°	1152.7	1161.1	1160.1	1161.1	1161.1
7.5°	1145.3	1154.2	1153.7	1155.2	1156.2
10°	1136.4	1144.8	1144.8	1146.3	1147.3
12.5°	1124.0	1132.9	1133.9	1136.4	1138.4
15°	1108.2	1117.1	1119.5	1124.0	1127.5
17.5°	1090.3	1099.7	1103.7	1108.2	1112.6
20°	1070.5	1078.9	1084.9	1088.3	1094.8
22.5°	1047.2	1056.7	1063.1	1066.6	1073.5
25°	1022.0	1030.9	1038.3	1043.8	1052.7
27.5°	995.3	1004.2	1013.1	1019.5	1029.9
30°	965.5	975.0	984.4	994.3	1003.7
32.5°	933.4	944.3	954.7	965.5	975.9
35°	898.7	910.1	923.0	935.3	947.7
37.5°	866.5	876.9	890.3	903.7	916.0
40°	829.4	840.8	856.1	871.0	883.8
42.5°	791.8	804.1	821.0	835.3	849.2
45°	751.1	766.0	783.3	799.2	812.5
47.5°	713.5	726.4	743.7	761.1	774.9
50°	671.4	685.8	703.6	721.9	737.3
52.5°	628.8	643.7	662.0	680.3	696.2
55°	584.8	600.1	618.9	638.3	653.6
57.5°	539.7	556.1	575.4	594.7	610.0
60°	494.2	510.5	528.8	550.1	564.0
62.5°	446.6	464.9	482.3	502.1	510.5
65°	399.1	416.4	434.7	452.1	457.0
67.5°	350.6	368.4	384.7	396.1	402.6
70°	301.1	320.4	332.2	343.1	347.1
72.5°	252.0	271.3	278.3	288.7	292.6
75°	203.5	222.3	226.8	236.2	239.7
77.5°	156.5	173.8	175.3	186.2	189.1
80°	111.9	125.8	128.2	138.6	140.6
82.5°	71.8	81.7	85.2	94.1	97.1
85°	37.6	43.1	47.0	51.5	52.5
87.5°	12.4	15.3	12.9	13.4	12.4
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	16.46	18.11	16.82	18.42	18.74	17.00	18.65	17.36	18.96	19.28
	3H	18.24	19.73	18.61	20.06	20.41	18.86	20.35	19.23	20.68	21.04
	4H	18.86	20.27	19.26	20.62	20.99	19.53	20.93	19.92	21.28	21.65
	6H	19.27	20.58	19.68	20.94	21.33	20.00	21.31	20.41	21.67	22.06
	8H	19.37	20.62	19.80	21.01	21.41	20.15	21.39	20.57	21.78	22.18
	12H	19.42	20.62	19.85	21.00	21.43	20.23	21.43	20.66	21.81	22.24
4H	2H	17.18	18.59	17.58	18.94	19.31	17.61	19.01	18.00	19.36	19.74
	3H	19.18	20.36	19.59	20.76	21.16	19.68	20.86	20.09	21.26	21.65
	4H	19.94	21.00	20.37	21.42	21.85	20.47	21.54	20.90	21.96	22.39
	6H	20.46	21.40	20.92	21.84	22.29	21.08	22.01	21.53	22.45	22.90
	8H	20.60	21.48	21.06	21.92	22.38	21.27	22.14	21.73	22.58	23.05
	12H	20.68	21.47	21.16	21.94	22.41	21.39	22.17	21.87	22.65	23.12
8H	4H	20.27	21.15	20.73	21.59	22.05	20.75	21.62	21.21	22.07	22.53
	6H	20.91	21.64	21.41	22.13	22.60	21.46	22.19	21.96	22.68	23.15
	8H	21.11	21.76	21.62	22.27	22.76	21.72	22.37	22.23	22.88	23.36
	12H	21.24	21.82	21.75	22.31	22.87	21.90	22.48	22.41	22.97	23.53
12H	4H	20.31	21.10	20.79	21.57	22.04	20.77	21.56	21.25	22.03	22.50
	6H	20.97	21.62	21.48	22.13	22.61	21.50	22.15	22.01	22.66	23.14
	8H	21.22	21.80	21.73	22.29	22.85	21.81	22.38	22.31	22.87	23.43