

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: P1584560

Luminaire Tested: 14CZSP-A-37HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584560
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-L850-S
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

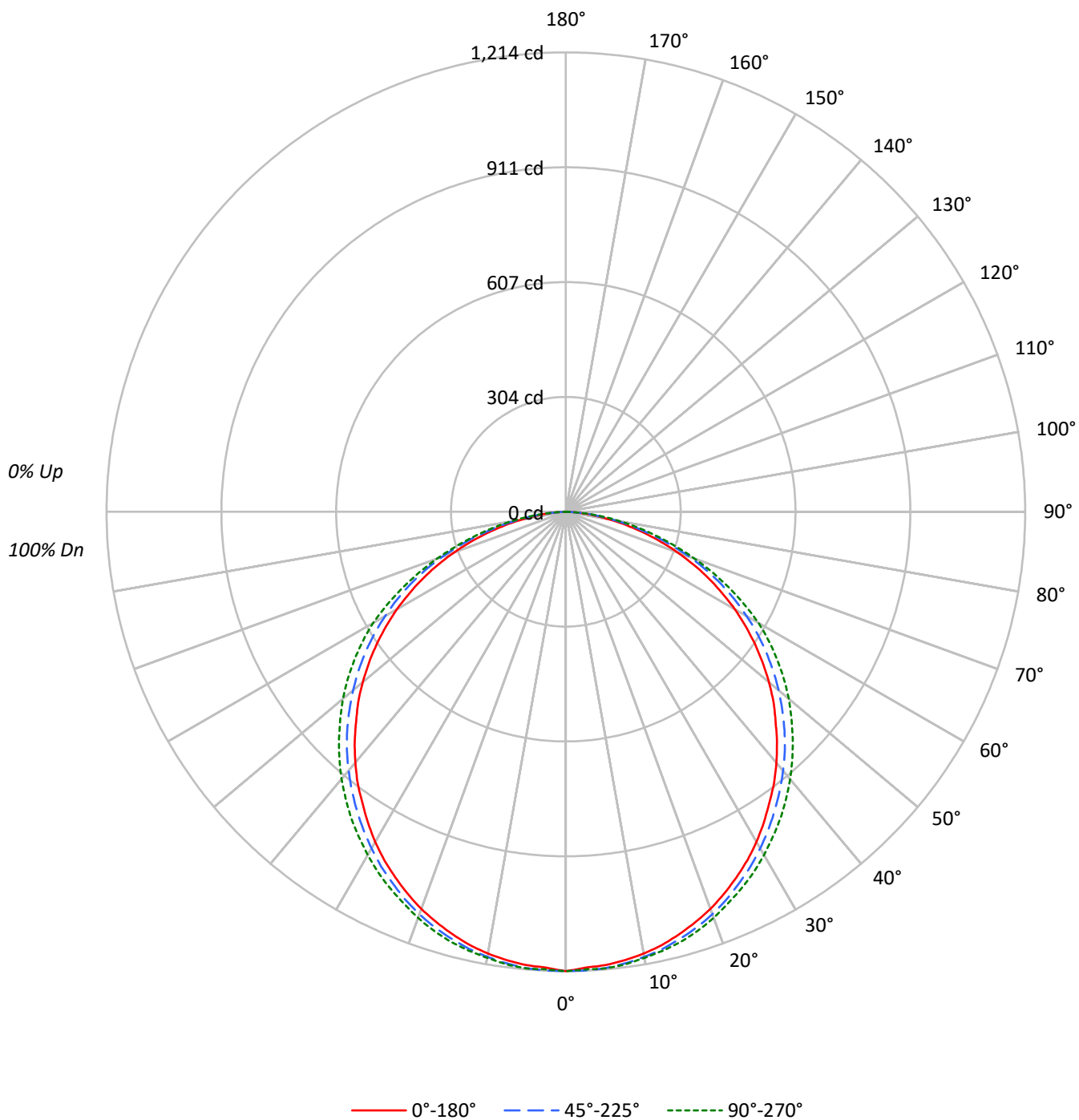
Lumens per Lamp: N/A
Luminaire Lumens: 3510.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4091	4091	4091
5°	4068	4094	4098
10°	4057	4087	4096
15°	4033	4075	4104
20°	4005	4059	4096
25°	3965	4028	4084
30°	3920	3996	4075
35°	3857	3961	4068
40°	3807	3929	4056
45°	3735	3895	4040
50°	3673	3849	4033
55°	3585	3794	4007
60°	3475	3719	3966
65°	3320	3617	3802
70°	3095	3416	3568
75°	2764	3080	3256
80°	2266	2596	2847
85°	1519	1898	2119

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4040 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.3
10°-20°	329.6	9.4
20°-30°	499.2	14.2
30°-40°	602.8	17.2
40°-50°	630.0	17.9
50°-60°	577.3	16.4
60°-70°	445.6	12.7
70°-80°	250.7	7.1
80°-90°	60.0	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°	943.8	26.9
0°-40°	1546.6	44.1
0°-60°	2753.8	78.5
0°-90°	3510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1203	1212	1210	1212	1212	114
15°	1156	1166	1168	1173	1176	326
25°	1066	1076	1083	1089	1098	491
35°	938	950	963	976	989	588
45°	784	799	817	834	848	606
55°	610	626	646	666	682	545
65°	416	434	454	472	477	411
75°	212	232	237	246	250	225
85°	39	45	49	54	55	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1205.8	1215.1	1213.1	1216.2	1210.5
5°	1202.7	1211.5	1210.5	1211.5	1211.5
7.5°	1195.0	1204.3	1203.8	1205.3	1206.4
10°	1185.7	1194.5	1194.5	1196.0	1197.1
12.5°	1172.8	1182.1	1183.1	1185.7	1187.8
15°	1156.2	1165.5	1168.1	1172.8	1176.4
17.5°	1137.6	1147.5	1151.6	1156.2	1160.9
20°	1117.0	1125.8	1132.0	1135.6	1142.3
22.5°	1092.7	1102.5	1109.2	1112.8	1120.1
25°	1066.4	1075.7	1083.4	1089.1	1098.4
27.5°	1038.5	1047.8	1057.1	1063.8	1074.6
30°	1007.5	1017.3	1027.1	1037.4	1047.2
32.5°	973.9	985.2	996.1	1007.5	1018.3
35°	937.7	949.6	963.0	975.9	988.9
37.5°	904.1	915.0	928.9	942.9	955.8
40°	865.4	877.3	893.3	908.8	922.2
42.5°	826.1	839.0	856.6	871.6	886.0
45°	783.7	799.2	817.3	833.9	847.8
47.5°	744.5	757.9	776.0	794.1	808.5
50°	700.6	715.6	734.2	753.3	769.3
52.5°	656.1	671.6	690.8	709.9	726.4
55°	610.2	626.2	645.8	666.0	682.0
57.5°	563.1	580.2	600.3	620.5	636.5
60°	515.6	532.7	551.8	574.0	588.5
62.5°	466.0	485.1	503.2	523.9	532.7
65°	416.4	434.5	453.6	471.7	476.9
67.5°	365.8	384.4	401.4	413.3	420.0
70°	314.1	334.3	346.7	358.0	362.2
72.5°	263.0	283.1	290.4	301.2	305.3
75°	212.3	232.0	236.6	246.4	250.1
77.5°	163.3	181.3	182.9	194.3	197.4
80°	116.8	131.2	133.8	144.7	146.7
82.5°	74.9	85.2	88.9	98.2	101.3
85°	39.3	44.9	49.1	53.7	54.8
87.5°	12.9	16.0	13.4	13.9	12.9
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	16.61	18.26	16.97	18.57	18.89	17.15	18.80	17.51	19.11	19.43
	3H	18.38	19.88	18.76	20.20	20.56	19.00	20.50	19.38	20.82	21.18
	4H	19.01	20.42	19.41	20.76	21.14	19.67	21.08	20.07	21.43	21.80
	6H	19.42	20.72	19.83	21.09	21.48	20.15	21.45	20.56	21.82	22.21
	8H	19.52	20.77	19.95	21.16	21.55	20.30	21.54	20.72	21.93	22.33
	12H	19.57	20.77	20.00	21.15	21.58	20.38	21.57	20.81	21.95	22.38
4H	2H	17.33	18.74	17.73	19.09	19.46	17.75	19.16	18.15	19.51	19.88
	3H	19.33	20.51	19.73	20.90	21.30	19.83	21.01	20.23	21.40	21.80
	4H	20.08	21.15	20.51	21.56	22.00	20.62	21.69	21.05	22.10	22.54
	6H	20.61	21.54	21.06	21.99	22.44	21.22	22.16	21.68	22.60	23.05
	8H	20.75	21.62	21.21	22.07	22.53	21.42	22.29	21.87	22.73	23.20
	12H	20.83	21.61	21.31	22.09	22.56	21.54	22.32	22.02	22.80	23.27
8H	4H	20.42	21.29	20.88	21.74	22.20	20.90	21.77	21.36	22.21	22.68
	6H	21.06	21.79	21.55	22.27	22.75	21.61	22.34	22.10	22.82	23.30
	8H	21.26	21.91	21.77	22.42	22.90	21.87	22.52	22.38	23.02	23.51
	12H	21.39	21.96	21.90	22.45	23.01	22.05	22.62	22.56	23.11	23.67
12H	4H	20.46	21.24	20.94	21.72	22.19	20.92	21.71	21.40	22.18	22.65
	6H	21.12	21.77	21.62	22.27	22.76	21.65	22.30	22.16	22.80	23.29
	8H	21.37	21.94	21.87	22.43	22.99	21.95	22.53	22.46	23.02	23.58

END OF REPORT