

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: P1586380

Luminaire Tested: 22CZSP-37HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-37HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

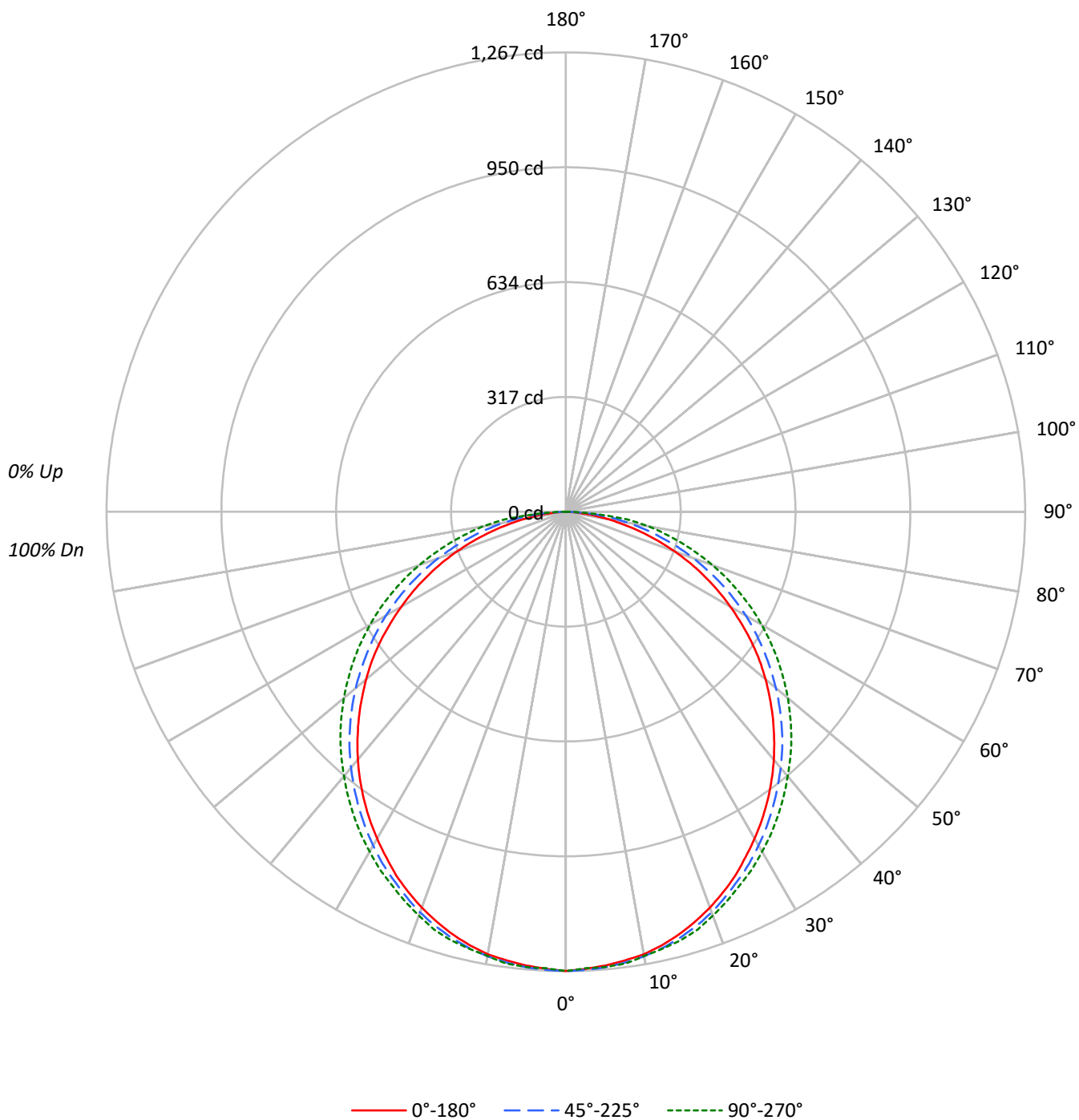
Lumens per Lamp: N/A
Luminaire Lumens: 3698.0 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.1
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			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	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	65	61		69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3966	3966	3966
5°	3948	3964	3961
10°	3940	3958	3955
15°	3912	3943	3967
20°	3872	3918	3950
25°	3824	3877	3925
30°	3764	3844	3914
35°	3710	3806	3902
40°	3649	3768	3891
45°	3579	3730	3895
50°	3502	3684	3894
55°	3411	3633	3898
60°	3283	3593	3908
65°	3133	3523	3920
70°	2920	3425	3938
75°	2601	3288	3976
80°	2151	3130	4171
85°	1398	2828	3643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4301 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.2
10°-20°	343.0	9.3
20°-30°	517.3	14.0
30°-40°	623.1	16.8
40°-50°	650.7	17.6
50°-60°	597.6	16.2
60°-70°	470.7	12.7
70°-80°	288.8	7.8
80°-90°	86.9	2.3
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°	980.1	26.5
0°-40°	1603.2	43.4
0°-60°	2851.6	77.1
0°-90°	3698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1267	1267	1267	1267	1267	
5°	1256	1258	1261	1265	1260	119
15°	1207	1209	1216	1224	1224	340
25°	1107	1109	1122	1136	1136	509
35°	970	975	996	1016	1021	607
45°	808	817	842	872	880	623
55°	625	636	665	703	714	558
65°	423	437	476	515	529	418
75°	215	232	272	315	329	228
85°	39	54	79	100	101	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1266.7	1266.7	1266.7	1266.7	1266.7
2.5°	1261.8	1264.2	1265.0	1265.9	1260.2
5°	1256.1	1257.7	1261.0	1265.0	1260.2
7.5°	1248.0	1249.6	1253.7	1259.4	1256.9
10°	1239.1	1239.9	1244.8	1248.8	1243.9
12.5°	1224.5	1226.9	1232.6	1235.8	1234.2
15°	1206.6	1209.1	1216.4	1223.7	1223.7
17.5°	1185.5	1188.8	1197.7	1207.4	1208.2
20°	1162.0	1164.4	1175.8	1185.5	1185.5
22.5°	1135.2	1138.5	1149.8	1160.4	1162.0
25°	1106.8	1109.2	1122.2	1136.0	1136.0
27.5°	1073.5	1078.4	1094.6	1108.4	1111.7
30°	1041.1	1045.1	1063.0	1080.0	1082.5
32.5°	1007.0	1011.9	1030.5	1049.2	1053.3
35°	970.5	975.4	995.6	1015.9	1020.8
37.5°	932.3	938.0	959.1	982.7	987.5
40°	892.6	899.1	921.8	947.0	951.8
42.5°	850.4	859.3	883.7	909.6	916.9
45°	808.2	817.1	842.3	871.5	879.6
47.5°	763.6	774.1	800.1	830.9	839.8
50°	718.9	729.5	756.3	789.5	799.3
52.5°	673.5	684.0	711.6	746.5	757.1
55°	624.8	636.2	665.4	702.7	714.1
57.5°	574.5	589.1	619.9	658.1	669.4
60°	524.2	538.8	573.7	611.0	624.0
62.5°	474.7	488.5	524.2	564.0	577.7
65°	422.8	437.4	475.5	515.3	529.1
67.5°	371.6	386.2	424.4	465.8	480.4
70°	318.9	335.1	374.1	415.5	430.1
72.5°	266.2	283.2	323.0	365.1	378.9
75°	215.0	232.1	271.8	314.8	328.6
77.5°	164.7	183.4	222.3	266.2	279.1
80°	119.3	137.1	173.6	216.7	231.3
82.5°	76.3	91.7	128.2	168.8	179.3
85°	38.9	53.6	78.7	99.8	101.4
87.5°	12.2	17.0	26.0	38.9	39.8
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	16.26	17.93	16.63	18.24	18.56	17.10	18.76	17.46	19.07	19.39
	3H	18.02	19.53	18.40	19.85	20.21	19.21	20.72	19.59	21.05	21.41
	4H	18.64	20.06	19.04	20.41	20.78	20.10	21.52	20.50	21.87	22.24
	6H	19.05	20.37	19.46	20.73	21.12	20.88	22.20	21.29	22.57	22.96
	8H	19.16	20.42	19.58	20.81	21.21	21.20	22.46	21.63	22.85	23.25
	12H	19.21	20.42	19.64	20.80	21.23	21.41	22.62	21.84	23.01	23.43
4H	2H	17.04	18.46	17.43	18.81	19.18	17.68	19.11	18.08	19.45	19.83
	3H	19.01	20.21	19.42	20.61	21.01	20.04	21.24	20.45	21.63	22.03
	4H	19.75	20.84	20.18	21.25	21.68	21.09	22.18	21.52	22.59	23.02
	6H	20.28	21.23	20.73	21.67	22.13	22.04	23.00	22.50	23.43	23.89
	8H	20.43	21.32	20.88	21.76	22.22	22.44	23.33	22.90	23.77	24.24
	12H	20.51	21.31	20.99	21.79	22.26	22.72	23.52	23.20	23.99	24.46
8H	4H	20.21	21.10	20.67	21.54	22.01	21.38	22.27	21.84	22.71	23.18
	6H	20.87	21.62	21.36	22.10	22.58	22.49	23.24	22.98	23.72	24.20
	8H	21.08	21.75	21.59	22.26	22.74	23.00	23.67	23.51	24.18	24.66
	12H	21.22	21.81	21.73	22.30	22.86	23.39	23.98	23.89	24.47	25.03
12H	4H	20.30	21.10	20.78	21.58	22.05	21.40	22.21	21.88	22.68	23.15
	6H	21.00	21.67	21.51	22.18	22.66	22.54	23.21	23.05	23.71	24.20
	8H	21.28	21.87	21.79	22.36	22.92	23.12	23.71	23.62	24.20	24.76