

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: P1586381

Luminaire Tested: 22CZSP-37HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-37HE-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

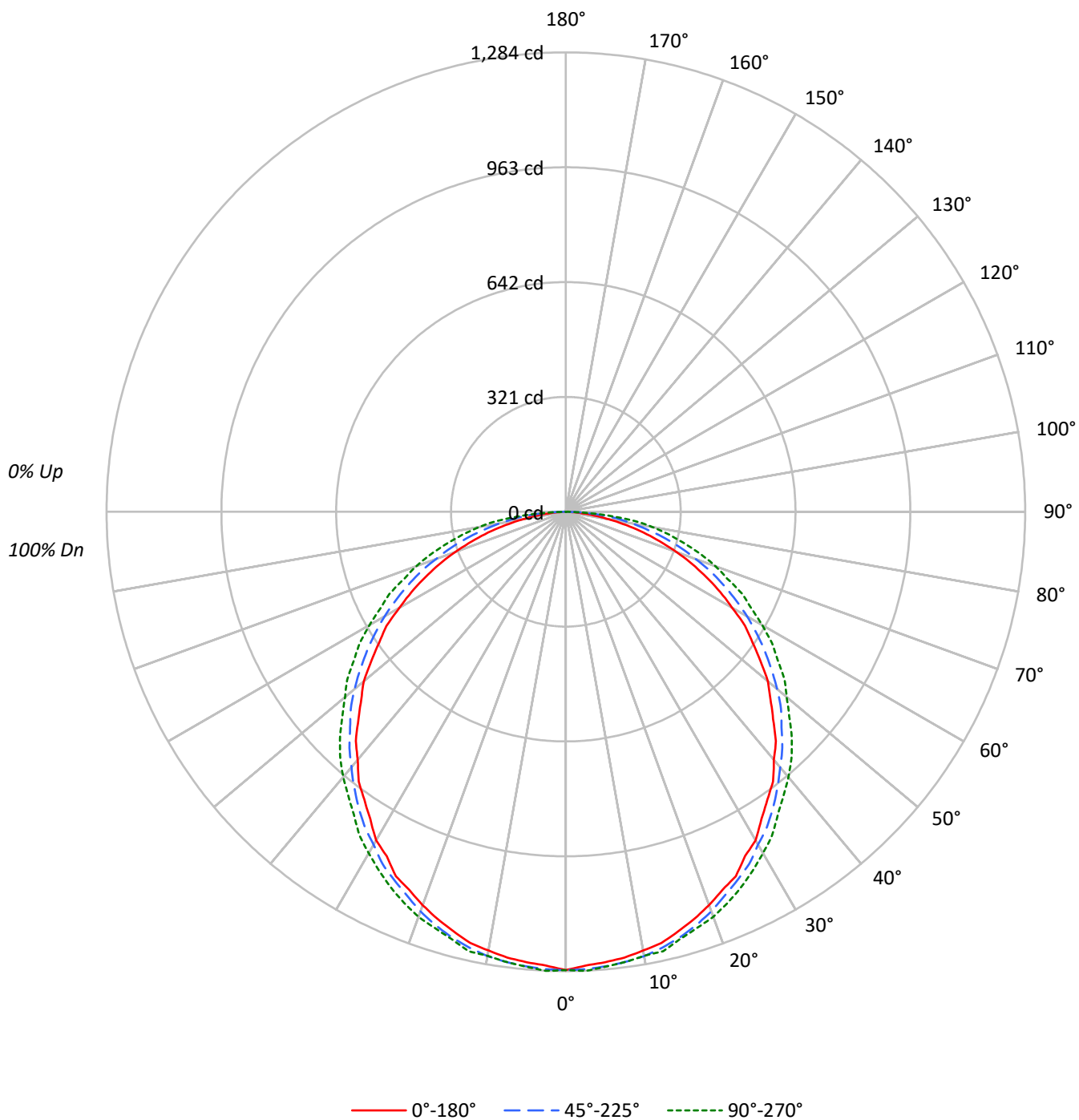
Lumens per Lamp: N/A
Luminaire Lumens: 3773.0 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61	55	51	49
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4011	4011	4011
5°	3972	4008	4012
10°	3959	4011	4007
15°	3936	3992	4007
20°	3899	3961	4015
25°	3883	3924	4003
30°	3834	3885	3985
35°	3754	3860	3948
40°	3699	3812	3958
45°	3629	3777	3955
50°	3592	3755	3924
55°	3478	3705	3944
60°	3361	3664	3968
65°	3215	3608	4036
70°	3022	3539	4079
75°	2722	3477	4161
80°	2227	3414	4432
85°	1451	3399	4146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4652 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.2
10°-20°	346.7	9.2
20°-30°	524.0	13.9
30°-40°	632.0	16.8
40°-50°	660.7	17.5
50°-60°	609.2	16.1
60°-70°	482.8	12.8
70°-80°	301.9	8.0
80°-90°	94.7	2.5
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°	991.8	26.3
0°-40°	1623.8	43.0
0°-60°	2893.7	76.7
0°-90°	3773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1264	1269	1275	1280	1276	120
15°	1214	1220	1231	1239	1236	343
25°	1124	1121	1136	1152	1159	515
35°	982	994	1010	1027	1033	616
45°	819	831	853	875	893	634
55°	637	652	679	716	722	571
65°	434	452	487	525	545	430
75°	225	244	287	328	344	237
85°	40	58	95	111	115	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.0	1281.0	1281.0	1281.0	1281.0
2.5°	1269.4	1275.2	1279.8	1278.7	1284.4
5°	1263.7	1269.4	1275.2	1279.8	1276.4
7.5°	1256.7	1262.5	1269.4	1276.4	1269.4
10°	1245.2	1248.7	1261.4	1262.5	1260.2
12.5°	1234.8	1238.3	1247.5	1255.6	1257.9
15°	1214.0	1219.8	1231.3	1239.4	1236.0
17.5°	1193.3	1201.3	1211.7	1219.8	1219.8
20°	1170.2	1176.0	1188.6	1194.4	1204.8
22.5°	1143.6	1150.6	1160.9	1177.1	1182.9
25°	1124.0	1120.6	1135.6	1151.7	1158.6
27.5°	1084.8	1089.4	1110.2	1125.2	1130.9
30°	1060.5	1062.9	1074.4	1095.2	1102.1
32.5°	1017.9	1024.8	1045.5	1060.5	1073.2
35°	982.1	993.6	1009.8	1027.1	1032.9
37.5°	950.9	953.2	971.7	994.8	999.4
40°	904.8	918.6	932.5	961.3	968.2
42.5°	869.0	875.9	895.5	923.2	933.6
45°	819.4	830.9	852.8	874.8	893.2
47.5°	775.5	787.0	815.9	843.6	847.1
50°	737.4	742.0	770.9	802.0	805.5
52.5°	685.5	697.0	724.7	759.3	770.9
55°	637.0	652.0	678.6	715.5	722.4
57.5°	594.3	601.2	632.4	669.3	683.2
60°	536.6	556.2	585.1	620.9	633.6
62.5°	487.0	505.5	536.6	570.1	583.9
65°	433.9	452.4	487.0	525.1	544.7
67.5°	383.1	398.1	439.7	478.9	488.2
70°	330.1	347.4	386.6	427.0	445.5
72.5°	274.7	294.3	338.1	376.2	395.8
75°	225.0	243.5	287.4	327.7	343.9
77.5°	173.1	193.9	236.6	277.0	295.4
80°	123.5	144.3	189.3	229.7	245.8
82.5°	79.6	101.6	144.3	180.0	193.9
85°	40.4	57.7	94.6	110.8	115.4
87.5°	12.7	20.8	32.3	36.9	36.9
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	16.35	18.02	16.72	18.33	18.65	17.14	18.81	17.51	19.12	19.44
	3H	18.13	19.65	18.51	19.97	20.33	19.28	20.80	19.66	21.12	21.48
	4H	18.77	20.20	19.17	20.54	20.92	20.21	21.64	20.61	21.98	22.36
	6H	19.20	20.52	19.61	20.89	21.28	21.03	22.36	21.44	22.72	23.11
	8H	19.31	20.58	19.73	20.97	21.36	21.38	22.65	21.80	23.04	23.43
	12H	19.36	20.58	19.79	20.96	21.39	21.62	22.84	22.05	23.22	23.65
4H	2H	17.12	18.55	17.52	18.90	19.27	17.74	19.16	18.13	19.51	19.89
	3H	19.13	20.34	19.54	20.73	21.13	20.12	21.33	20.53	21.72	22.12
	4H	19.89	20.99	20.33	21.40	21.83	21.21	22.30	21.64	22.71	23.15
	6H	20.44	21.40	20.89	21.84	22.29	22.21	23.17	22.66	23.61	24.06
	8H	20.60	21.49	21.06	21.94	22.40	22.63	23.53	23.09	23.97	24.44
	12H	20.69	21.49	21.16	21.97	22.44	22.95	23.76	23.43	24.23	24.70
8H	4H	20.37	21.27	20.83	21.71	22.18	21.52	22.42	21.98	22.86	23.32
	6H	21.06	21.81	21.56	22.30	22.77	22.68	23.43	23.17	23.92	24.39
	8H	21.29	21.97	21.80	22.47	22.96	23.23	23.90	23.73	24.40	24.89
	12H	21.44	22.04	21.95	22.53	23.08	23.66	24.25	24.16	24.74	25.30
12H	4H	20.47	21.28	20.95	21.75	22.22	21.55	22.36	22.02	22.83	23.30
	6H	21.21	21.89	21.72	22.39	22.88	22.74	23.41	23.25	23.92	24.40
	8H	21.52	22.11	22.02	22.60	23.16	23.36	23.95	23.86	24.44	25.00