

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: P1586483

Luminaire Tested: 22CZSP-52-L930

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-52-L930
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

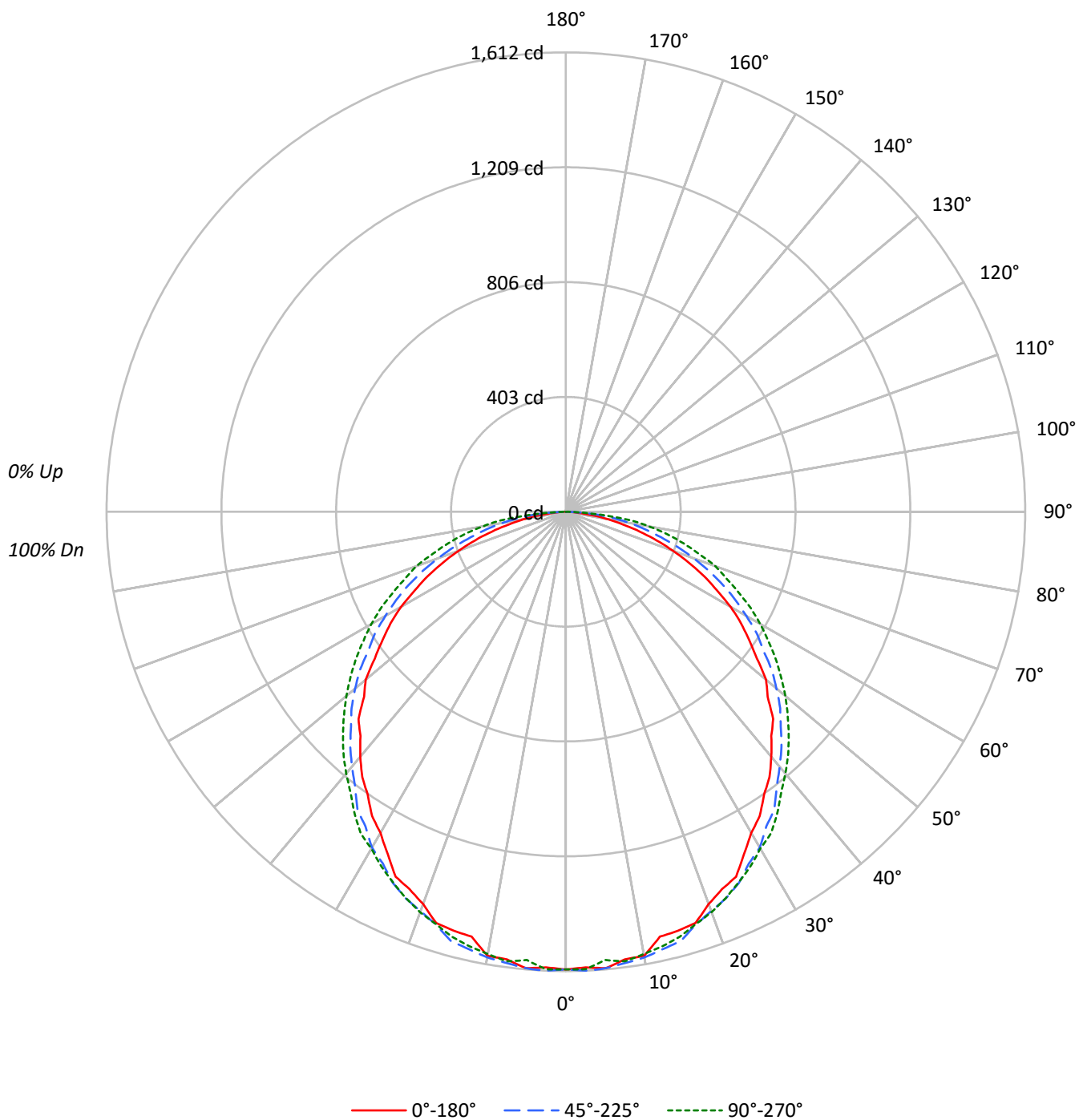
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4689.1 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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	68
3	89	79	70	63	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	31	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°	5029	5029	5029
5°	5054	5054	4963
10°	5030	5049	5011
15°	4934	5054	5005
20°	4882	4968	4982
25°	4882	4965	4958
30°	4704	4921	4935
35°	4633	4874	4943
40°	4586	4770	4901
45°	4557	4721	4898
50°	4467	4701	4896
55°	4286	4613	4908
60°	4183	4578	4935
65°	3971	4512	4949
70°	3662	4367	5118
75°	3255	4174	5166
80°	2705	4093	5356
85°	1653	3665	4527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5542 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	3.2
10°-20°	435.2	9.3
20°-30°	656.4	14.0
30°-40°	788.4	16.8
40°-50°	822.9	17.6
50°-60°	757.7	16.2
60°-70°	598.4	12.8
70°-80°	368.5	7.9
80°-90°	109.2	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°	1243.9	26.5
0°-40°	2032.3	43.3
0°-60°	3612.9	77.1
0°-90°	4689.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4689.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1608	1592	1608	1610	1579	152
15°	1522	1543	1559	1552	1544	430
25°	1413	1423	1437	1431	1435	644
35°	1212	1234	1275	1281	1293	762
45°	1029	1037	1066	1089	1106	787
55°	785	806	845	883	899	705
65°	536	555	609	653	668	528
75°	269	295	345	400	427	285
85°	46	66	102	121	126	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1606	1606	1606	1606	1606
2.5°	1600	1617	1612	1615	1607
5°	1608	1592	1608	1610	1579
7.5°	1584	1586	1597	1600	1591
10°	1582	1588	1588	1578	1576
12.5°	1527	1557	1572	1579	1562
15°	1522	1543	1559	1552	1544
17.5°	1513	1507	1518	1526	1517
20°	1465	1475	1491	1493	1495
22.5°	1433	1436	1468	1471	1467
25°	1413	1423	1437	1431	1435
27.5°	1354	1378	1391	1403	1403
30°	1301	1329	1361	1365	1365
32.5°	1266	1285	1309	1317	1339
35°	1212	1234	1275	1281	1293
37.5°	1174	1196	1215	1236	1241
40°	1122	1145	1167	1191	1199
42.5°	1067	1091	1120	1145	1155
45°	1029	1037	1066	1089	1106
47.5°	960	983	1020	1049	1056
50°	917	926	965	1004	1005
52.5°	845	872	910	947	952
55°	785	806	845	883	899
57.5°	729	745	795	833	842
60°	668	685	731	775	788
62.5°	597	621	671	713	731
65°	536	555	609	653	668
67.5°	467	493	544	593	609
70°	400	426	477	528	559
72.5°	334	361	412	471	488
75°	269	295	345	400	427
77.5°	205	233	284	339	365
80°	150	172	227	275	297
82.5°	93	116	167	212	231
85°	46	66	102	121	126
87.5°	14	21	32	42	48
90°	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	17.08	18.74	17.44	19.05	19.37	17.90	19.56	18.27	19.88	20.19
	3H	18.83	20.34	19.21	20.67	21.03	20.05	21.56	20.43	21.88	22.24
	4H	19.45	20.87	19.84	21.22	21.59	20.96	22.39	21.36	22.73	23.11
	6H	19.85	21.17	20.26	21.53	21.92	21.76	23.08	22.17	23.45	23.84
	8H	19.95	21.21	20.37	21.60	22.00	22.09	23.35	22.51	23.74	24.14
	12H	20.00	21.21	20.43	21.59	22.02	22.29	23.50	22.72	23.88	24.31
4H	2H	17.87	19.29	18.27	19.64	20.01	18.51	19.93	18.90	20.28	20.65
	3H	19.84	21.04	20.25	21.44	21.84	20.89	22.09	21.30	22.48	22.88
	4H	20.58	21.66	21.01	22.07	22.51	21.95	23.04	22.38	23.45	23.89
	6H	21.09	22.05	21.55	22.49	22.94	22.92	23.87	23.37	24.31	24.77
	8H	21.23	22.13	21.69	22.57	23.03	23.32	24.21	23.78	24.65	25.12
	12H	21.31	22.11	21.79	22.59	23.06	23.59	24.39	24.06	24.86	25.33
8H	4H	21.04	21.93	21.50	22.37	22.84	22.24	23.14	22.70	23.58	24.04
	6H	21.70	22.44	22.19	22.93	23.40	23.37	24.11	23.86	24.60	25.07
	8H	21.90	22.57	22.41	23.07	23.56	23.88	24.54	24.38	25.05	25.53
	12H	22.03	22.62	22.54	23.11	23.67	24.24	24.84	24.75	25.33	25.88
12H	4H	21.13	21.94	21.61	22.41	22.88	22.27	23.07	22.75	23.55	24.01
	6H	21.83	22.50	22.34	23.01	23.49	23.42	24.09	23.92	24.59	25.08
	8H	22.11	22.70	22.61	23.19	23.75	23.99	24.58	24.50	25.07	25.63