

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: P1586407

Luminaire Tested: 22CZSP-42-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586407
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-42-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

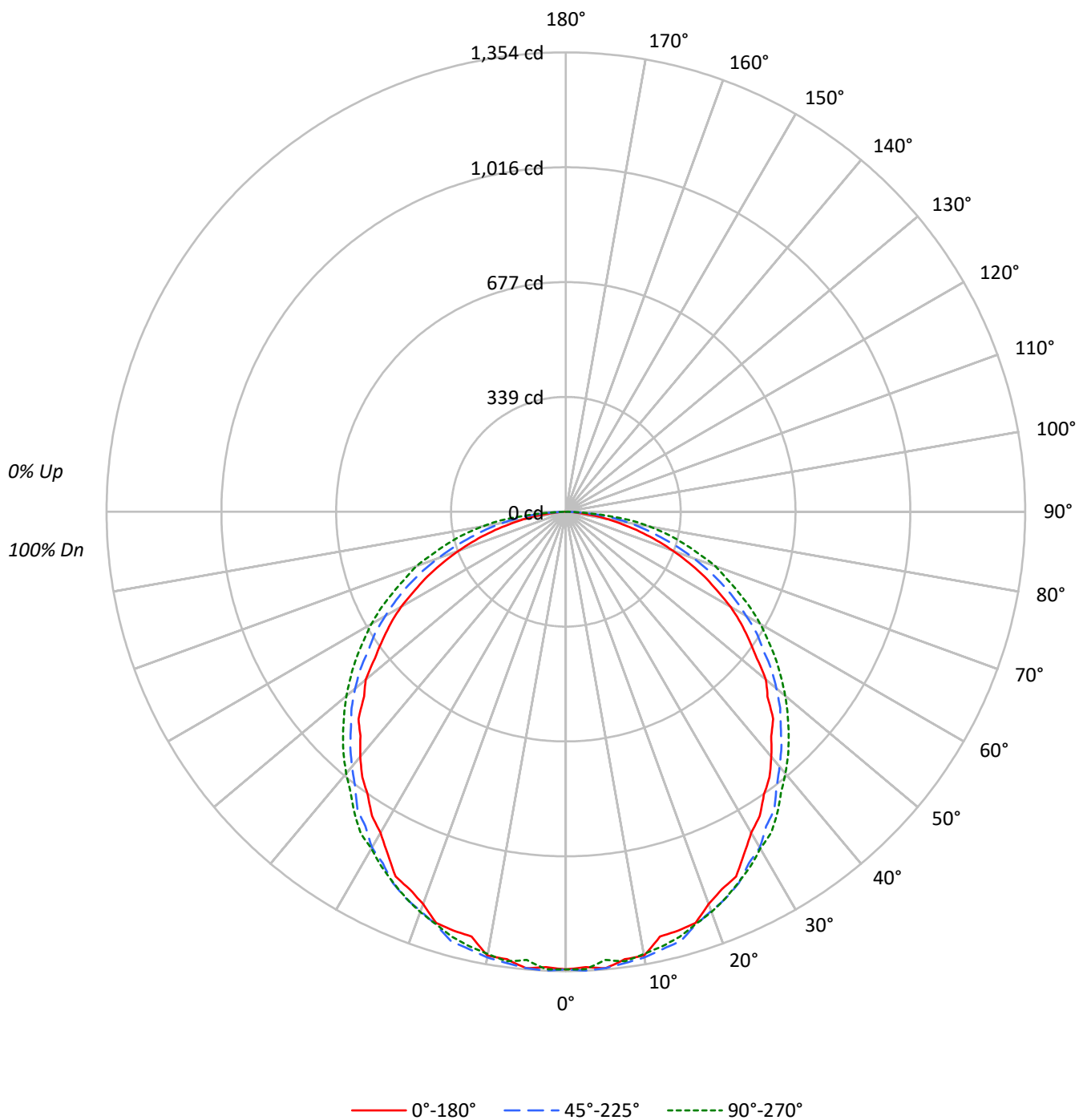
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938.0 lumens
Efficiency: N/A
Efficacy: 136.3 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): 28.9
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°	4224	4224	4224
5°	4245	4245	4168
10°	4224	4240	4209
15°	4144	4244	4204
20°	4100	4173	4184
25°	4100	4170	4164
30°	3951	4133	4145
35°	3891	4093	4151
40°	3852	4006	4116
45°	3827	3965	4113
50°	3752	3948	4112
55°	3599	3874	4122
60°	3513	3845	4145
65°	3335	3790	4157
70°	3075	3668	4298
75°	2733	3505	4339
80°	2272	3437	4497
85°	1387	3079	3801

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.2
10°-20°	365.5	9.3
20°-30°	551.3	14.0
30°-40°	662.1	16.8
40°-50°	691.1	17.6
50°-60°	636.4	16.2
60°-70°	502.5	12.8
70°-80°	309.5	7.9
80°-90°	91.8	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°	1044.6	26.5
0°-40°	1706.7	43.3
0°-60°	3034.3	77.1
0°-90°	3938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1349	1349	1349	1349	1349	
5°	1350	1337	1350	1352	1326	128
15°	1278	1296	1309	1303	1297	361
25°	1187	1195	1207	1202	1205	541
35°	1018	1036	1071	1076	1086	640
45°	864	871	895	915	929	661
55°	659	677	710	742	755	592
65°	450	466	512	548	561	443
75°	226	248	290	336	359	240
85°	39	55	86	102	106	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.8	1348.8	1348.8	1348.8	1348.8
2.5°	1343.7	1358.0	1353.8	1356.3	1349.6
5°	1350.4	1337.0	1350.4	1352.1	1326.1
7.5°	1330.3	1332.0	1341.2	1343.7	1336.2
10°	1328.6	1333.6	1333.6	1325.2	1323.6
12.5°	1282.4	1307.6	1320.2	1326.1	1311.8
15°	1278.2	1295.9	1309.3	1303.4	1296.7
17.5°	1270.7	1265.6	1274.9	1281.6	1274.0
20°	1230.3	1238.7	1252.2	1253.9	1255.5
22.5°	1203.5	1206.0	1232.9	1235.4	1232.0
25°	1186.7	1195.1	1206.8	1201.8	1205.2
27.5°	1137.1	1157.3	1168.2	1178.3	1178.3
30°	1092.6	1116.1	1143.0	1146.4	1146.4
32.5°	1063.2	1079.2	1099.3	1106.1	1124.5
35°	1017.9	1036.3	1070.8	1075.8	1085.9
37.5°	986.0	1004.4	1020.4	1038.0	1042.2
40°	942.3	961.6	980.1	1000.2	1007.0
42.5°	896.1	916.3	940.6	961.6	970.0
45°	864.2	870.9	895.3	914.6	928.8
47.5°	806.2	825.6	856.6	881.0	886.9
50°	770.1	777.7	810.4	843.2	844.0
52.5°	709.7	732.3	764.2	795.3	799.5
55°	659.3	676.9	709.7	741.6	755.0
57.5°	612.2	625.7	667.7	699.6	707.1
60°	561.0	575.3	613.9	650.9	661.8
62.5°	501.4	521.5	563.5	598.8	613.9
65°	450.1	466.1	511.5	548.4	561.0
67.5°	392.2	414.0	456.9	498.0	511.5
70°	335.9	357.8	400.6	443.4	469.5
72.5°	280.5	303.2	346.0	395.6	409.8
75°	225.9	247.7	289.7	335.9	358.6
77.5°	172.2	195.7	238.5	284.7	306.5
80°	126.0	144.5	190.6	231.0	249.4
82.5°	78.1	97.4	140.3	178.0	194.0
85°	38.6	55.4	85.7	101.6	105.8
87.5°	11.8	17.6	26.9	35.3	40.3
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	16.47	18.13	16.84	18.45	18.76	17.29	18.96	17.66	19.27	19.59
	3H	18.23	19.73	18.60	20.06	20.42	19.44	20.95	19.82	21.28	21.64
	4H	18.84	20.26	19.24	20.61	20.98	20.36	21.78	20.75	22.13	22.50
	6H	19.24	20.56	19.65	20.93	21.32	21.16	22.48	21.57	22.84	23.23
	8H	19.34	20.61	19.77	21.00	21.39	21.48	22.74	21.90	23.13	23.53
	12H	19.39	20.60	19.82	20.98	21.41	21.68	22.90	22.11	23.28	23.71
4H	2H	17.26	18.69	17.66	19.03	19.41	17.90	19.32	18.30	19.67	20.05
	3H	19.24	20.44	19.65	20.83	21.23	20.28	21.48	20.69	21.88	22.27
	4H	19.97	21.06	20.40	21.47	21.90	21.35	22.43	21.78	22.85	23.28
	6H	20.49	21.44	20.94	21.88	22.33	22.31	23.27	22.77	23.71	24.16
	8H	20.63	21.52	21.09	21.96	22.43	22.71	23.60	23.17	24.05	24.51
	12H	20.70	21.51	21.18	21.98	22.45	22.98	23.78	23.46	24.26	24.73
8H	4H	20.43	21.33	20.89	21.77	22.23	21.64	22.53	22.09	22.97	23.43
	6H	21.09	21.83	21.58	22.32	22.79	22.76	23.51	23.25	23.99	24.47
	8H	21.29	21.96	21.80	22.47	22.95	23.27	23.94	23.78	24.44	24.93
	12H	21.42	22.02	21.93	22.50	23.06	23.64	24.23	24.14	24.72	25.28
12H	4H	20.53	21.33	21.00	21.80	22.27	21.66	22.46	22.14	22.94	23.41
	6H	21.23	21.90	21.73	22.40	22.89	22.81	23.48	23.32	23.99	24.47
	8H	21.50	22.09	22.01	22.58	23.14	23.38	23.98	23.89	24.47	25.02