

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: P1586347

Luminaire Tested: 22CZSP-33HE-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586347
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-33HE-L940
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

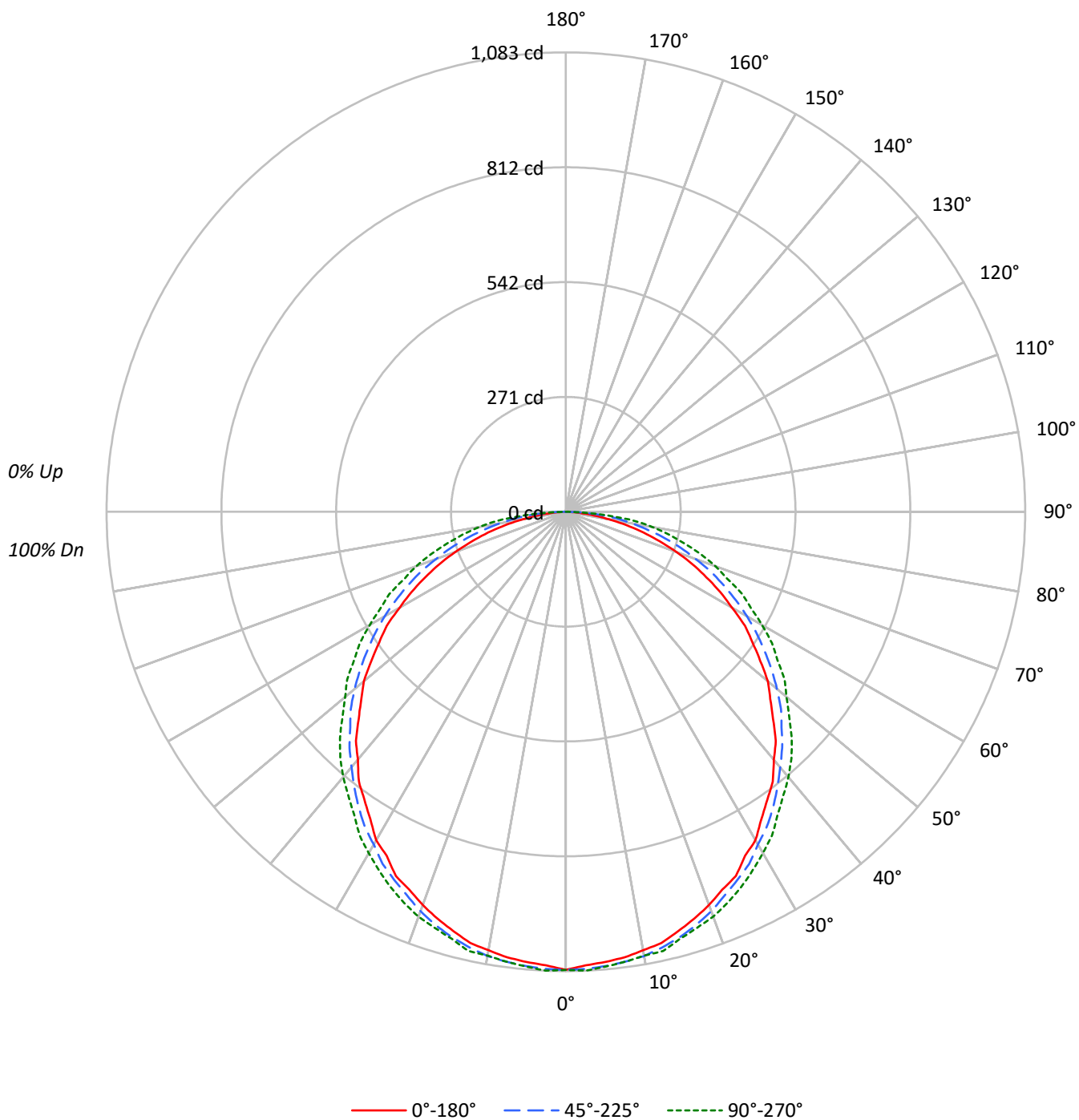
Lumens per Lamp: N/A
Luminaire Lumens: 3181.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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			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°	3382	3382	3382
5°	3349	3379	3382
10°	3338	3381	3378
15°	3318	3365	3378
20°	3288	3339	3385
25°	3274	3308	3375
30°	3233	3275	3360
35°	3165	3254	3329
40°	3118	3213	3337
45°	3059	3184	3335
50°	3029	3166	3308
55°	2932	3123	3325
60°	2833	3089	3346
65°	2710	3042	3402
70°	2548	2984	3439
75°	2295	2931	3507
80°	1877	2878	3736
85°	1225	2867	3496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.2
10°-20°	292.3	9.2
20°-30°	441.8	13.9
30°-40°	532.8	16.8
40°-50°	557.0	17.5
50°-60°	513.7	16.1
60°-70°	407.0	12.8
70°-80°	254.5	8.0
80°-90°	79.8	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°	836.2	26.3
0°-40°	1369.0	43.0
0°-60°	2439.7	76.7
0°-90°	3181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1065	1070	1075	1079	1076	101
15°	1024	1028	1038	1045	1042	289
25°	948	945	957	971	977	435
35°	828	838	851	866	871	519
45°	691	700	719	738	753	535
55°	537	550	572	603	609	482
65°	366	381	411	443	459	362
75°	190	205	242	276	290	200
85°	34	49	80	93	97	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1070.2	1075.1	1079.0	1078.0	1082.9
5°	1065.4	1070.2	1075.1	1079.0	1076.1
7.5°	1059.5	1064.4	1070.2	1076.1	1070.2
10°	1049.8	1052.7	1063.4	1064.4	1062.5
12.5°	1041.1	1044.0	1051.8	1058.6	1060.5
15°	1023.5	1028.4	1038.1	1045.0	1042.0
17.5°	1006.0	1012.8	1021.6	1028.4	1028.4
20°	986.6	991.4	1002.1	1007.0	1015.8
22.5°	964.2	970.0	978.8	992.4	997.3
25°	947.7	944.7	957.4	971.0	976.8
27.5°	914.6	918.5	936.0	948.6	953.5
30°	894.1	896.1	905.8	923.3	929.2
32.5°	858.1	864.0	881.5	894.1	904.8
35°	828.0	837.7	851.3	865.9	870.8
37.5°	801.7	803.7	819.2	838.7	842.6
40°	762.8	774.5	786.1	810.5	816.3
42.5°	732.6	738.5	755.0	778.4	787.1
45°	690.8	700.5	719.0	737.5	753.1
47.5°	653.8	663.6	687.9	711.2	714.1
50°	621.7	625.6	649.9	676.2	679.1
52.5°	577.9	587.7	611.0	640.2	649.9
55°	537.1	549.7	572.1	603.2	609.1
57.5°	501.1	506.9	533.2	564.3	576.0
60°	452.4	469.0	493.3	523.4	534.2
62.5°	410.6	426.2	452.4	480.6	492.3
65°	365.8	381.4	410.6	442.7	459.2
67.5°	323.0	335.7	370.7	403.8	411.6
70°	278.3	292.9	325.9	360.0	375.6
72.5°	231.6	248.1	285.1	317.2	333.7
75°	189.7	205.3	242.3	276.3	289.9
77.5°	145.9	163.5	199.5	233.5	249.1
80°	104.1	121.6	159.6	193.6	207.2
82.5°	67.1	85.6	121.6	151.8	163.5
85°	34.1	48.6	79.8	93.4	97.3
87.5°	10.7	17.5	27.2	31.1	31.1
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	15.76	17.43	16.12	17.74	18.05	16.55	18.21	16.91	18.53	18.84
	3H	17.54	19.05	17.92	19.38	19.74	18.69	20.20	19.07	20.53	20.89
	4H	18.18	19.60	18.57	19.95	20.33	19.61	21.04	20.01	21.39	21.76
	6H	18.60	19.93	19.01	20.29	20.68	20.44	21.77	20.85	22.13	22.52
	8H	18.72	19.98	19.14	20.37	20.77	20.79	22.05	21.21	22.44	22.84
	12H	18.77	19.99	19.20	20.37	20.80	21.03	22.25	21.46	22.63	23.06
4H	2H	16.53	17.96	16.93	18.31	18.68	17.14	18.57	17.54	18.92	19.29
	3H	18.54	19.74	18.95	20.14	20.54	19.53	20.73	19.94	21.13	21.53
	4H	19.30	20.39	19.73	20.81	21.24	20.62	21.71	21.05	22.12	22.56
	6H	19.85	20.81	20.30	21.25	21.70	21.62	22.57	22.07	23.01	23.47
	8H	20.00	20.90	20.46	21.34	21.81	22.04	22.94	22.50	23.38	23.84
	12H	20.09	20.90	20.57	21.38	21.84	22.36	23.16	22.83	23.64	24.11
8H	4H	19.78	20.68	20.24	21.12	21.58	20.92	21.82	21.38	22.26	22.73
	6H	20.47	21.22	20.96	21.71	22.18	22.09	22.84	22.58	23.33	23.80
	8H	20.70	21.37	21.21	21.88	22.36	22.63	23.31	23.14	23.81	24.30
	12H	20.85	21.44	21.35	21.93	22.49	23.06	23.66	23.57	24.15	24.71
12H	4H	19.88	20.69	20.36	21.16	21.63	20.95	21.76	21.43	22.24	22.70
	6H	20.62	21.29	21.13	21.80	22.28	22.15	22.82	22.65	23.33	23.81
	8H	20.92	21.52	21.43	22.01	22.57	22.76	23.36	23.27	23.85	24.41