

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: P1586744

Luminaire Tested: 22CZSP-A-54HE-L935-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586744
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-A-54HE-L935-S
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

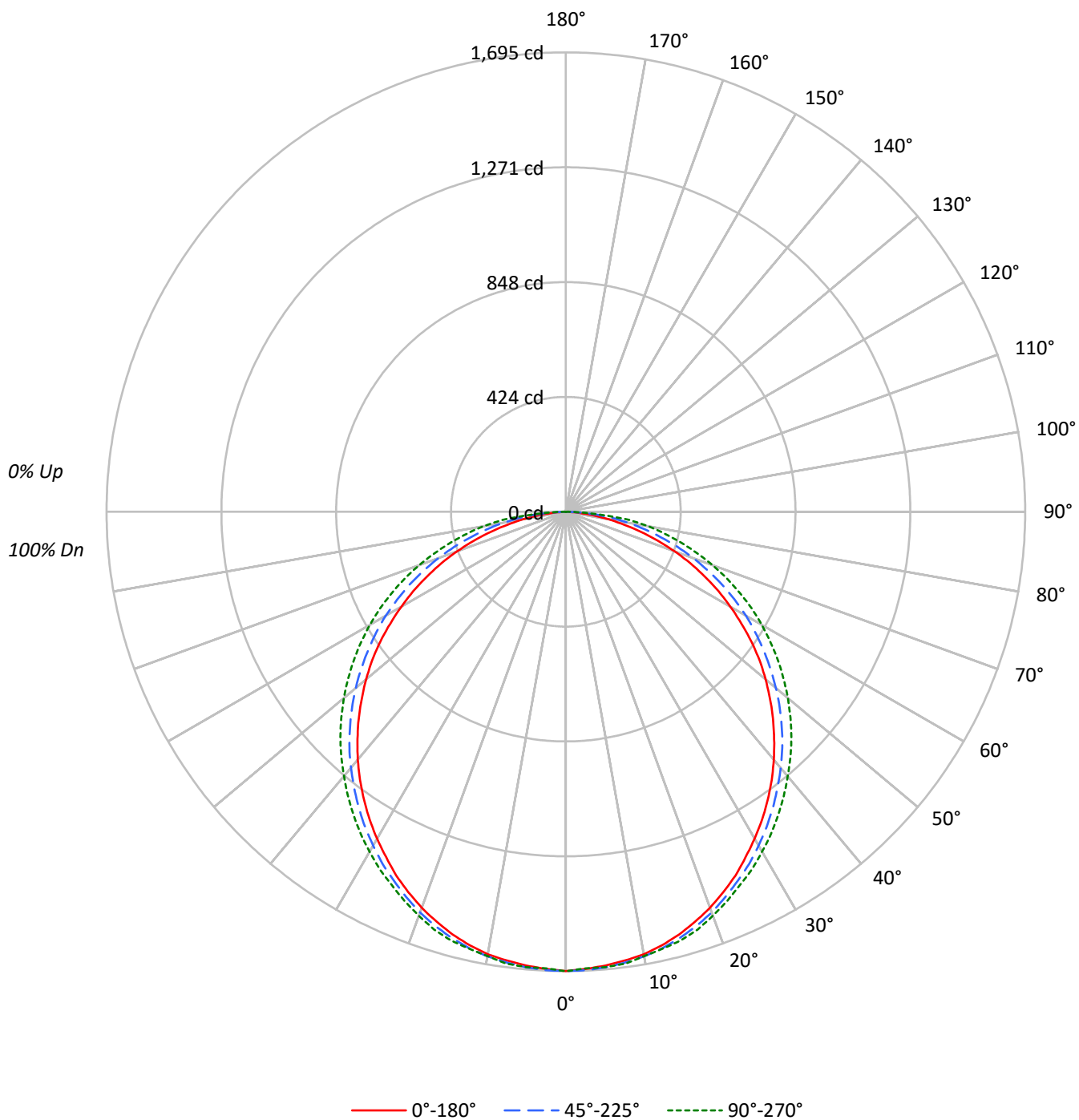
Lumens per Lamp: N/A
Luminaire Lumens: 4948.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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°	5307	5307	5307
5°	5283	5303	5300
10°	5272	5296	5292
15°	5234	5276	5308
20°	5181	5242	5286
25°	5117	5188	5252
30°	5037	5143	5237
35°	4964	5093	5221
40°	4882	5042	5206
45°	4789	4991	5212
50°	4686	4929	5210
55°	4564	4860	5216
60°	4393	4807	5229
65°	4191	4714	5245
70°	3907	4582	5268
75°	3481	4400	5320
80°	2878	4189	5579
85°	1872	3783	4875

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5755 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	3.2
10°-20°	459.0	9.3
20°-30°	692.2	14.0
30°-40°	833.7	16.8
40°-50°	870.7	17.6
50°-60°	799.6	16.2
60°-70°	629.8	12.7
70°-80°	386.4	7.8
80°-90°	116.3	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°	1311.4	26.5
0°-40°	2145.2	43.4
0°-60°	3815.5	77.1
0°-90°	4948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1681	1683	1687	1693	1686	160
15°	1614	1618	1628	1637	1637	455
25°	1481	1484	1502	1520	1520	682
35°	1298	1305	1332	1359	1366	812
45°	1081	1093	1127	1166	1177	834
55°	836	851	890	940	955	746
65°	566	585	636	689	708	560
75°	288	310	364	421	440	305
85°	52	72	105	134	136	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.8	1694.8	1694.8	1694.8	1694.8
2.5°	1688.3	1691.6	1692.7	1693.7	1686.1
5°	1680.7	1682.9	1687.2	1692.7	1686.1
7.5°	1669.9	1672.0	1677.5	1685.1	1681.8
10°	1657.9	1659.0	1665.5	1670.9	1664.4
12.5°	1638.4	1641.6	1649.2	1653.6	1651.4
15°	1614.5	1617.7	1627.5	1637.3	1637.3
17.5°	1586.2	1590.6	1602.5	1615.6	1616.6
20°	1554.8	1558.0	1573.2	1586.2	1586.2
22.5°	1518.9	1523.3	1538.5	1552.6	1554.8
25°	1480.9	1484.2	1501.6	1520.0	1520.0
27.5°	1436.4	1442.9	1464.6	1483.1	1487.4
30°	1393.0	1398.4	1422.3	1445.1	1448.4
32.5°	1347.4	1353.9	1378.9	1403.8	1409.3
35°	1298.5	1305.0	1332.2	1359.3	1365.8
37.5°	1247.5	1255.1	1283.3	1314.8	1321.3
40°	1194.3	1203.0	1233.4	1267.0	1273.6
42.5°	1137.8	1149.8	1182.4	1217.1	1226.9
45°	1081.4	1093.3	1127.0	1166.1	1176.9
47.5°	1021.7	1035.8	1070.5	1111.8	1123.7
50°	962.0	976.1	1011.9	1056.4	1069.4
52.5°	901.2	915.3	952.2	998.9	1013.0
55°	836.0	851.2	890.3	940.2	955.4
57.5°	768.7	788.2	829.5	880.5	895.7
60°	701.4	720.9	767.6	817.6	834.9
62.5°	635.2	653.6	701.4	754.6	773.0
65°	565.7	585.2	636.2	689.4	707.9
67.5°	497.3	516.8	567.8	623.2	642.8
70°	426.7	448.4	500.5	555.9	575.4
72.5°	356.1	378.9	432.1	488.6	507.0
75°	287.7	310.5	363.7	421.3	439.7
77.5°	220.4	245.4	297.5	356.1	373.5
80°	159.6	183.5	232.3	289.9	309.4
82.5°	102.1	122.7	171.5	225.8	239.9
85°	52.1	71.7	105.3	133.5	135.7
87.5°	16.3	22.8	34.7	52.1	53.2
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	17.28	18.94	17.64	19.25	19.57	18.11	19.77	18.47	20.08	20.40
	3H	19.03	20.54	19.41	20.87	21.23	20.22	21.73	20.60	22.06	22.42
	4H	19.65	21.07	20.05	21.42	21.80	21.11	22.53	21.51	22.88	23.26
	6H	20.06	21.38	20.47	21.75	22.14	21.89	23.21	22.30	23.58	23.97
	8H	20.17	21.43	20.59	21.82	22.22	22.21	23.48	22.64	23.86	24.26
	12H	20.22	21.43	20.65	21.81	22.24	22.42	23.64	22.85	24.02	24.45
4H	2H	18.05	19.47	18.45	19.82	20.19	18.69	20.12	19.09	20.46	20.84
	3H	20.03	21.22	20.43	21.62	22.02	21.05	22.25	21.46	22.64	23.04
	4H	20.76	21.85	21.19	22.26	22.70	22.10	23.19	22.53	23.60	24.04
	6H	21.29	22.24	21.74	22.68	23.14	23.05	24.01	23.51	24.45	24.90
	8H	21.44	22.33	21.90	22.77	23.24	23.45	24.34	23.91	24.79	25.25
	12H	21.52	22.33	22.00	22.80	23.27	23.73	24.53	24.21	25.01	25.47
8H	4H	21.22	22.11	21.68	22.55	23.02	22.39	23.28	22.85	23.72	24.19
	6H	21.88	22.63	22.37	23.11	23.59	23.50	24.25	23.99	24.73	25.21
	8H	22.09	22.76	22.60	23.27	23.75	24.01	24.68	24.52	25.19	25.67
	12H	22.23	22.82	22.74	23.31	23.87	24.40	24.99	24.91	25.48	26.04
12H	4H	21.31	22.11	21.79	22.59	23.06	22.42	23.22	22.89	23.69	24.16
	6H	22.01	22.68	22.52	23.19	23.67	23.55	24.22	24.06	24.72	25.21
	8H	22.29	22.88	22.80	23.37	23.93	24.13	24.72	24.63	25.21	25.77