

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: P1586505

Luminaire Tested: 22CZSP-54HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586505
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-54HE-L935
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

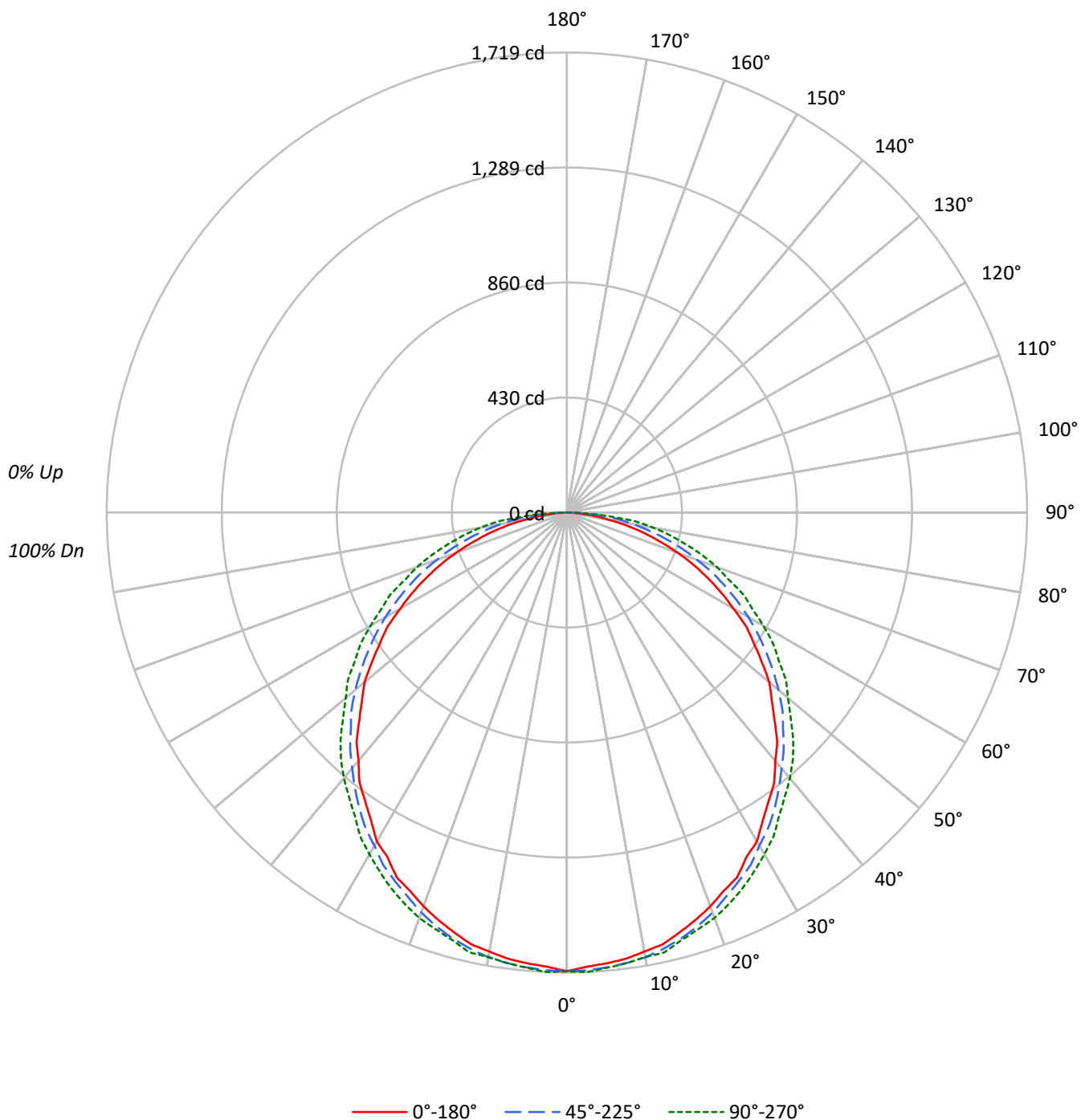
Lumens per Lamp: N/A
Luminaire Lumens: 5049.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	90	82	76	95	88	81	76	84	79	74		81	76	72		78
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68
4	82	69	60	53	79	68	59	53	65	58	52		63	57	51		61
5	75	62	53	46	73	61	52	46	58	51	45		56	50	44		55
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	40	34		45
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41
9	56	42	34	28	54	41	34	28	40	33	28		39	33	28		38
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5368	5368	5368
5°	5315	5364	5369
10°	5298	5367	5362
15°	5267	5342	5362
20°	5218	5300	5373
25°	5197	5250	5357
30°	5131	5199	5332
35°	5024	5166	5284
40°	4949	5101	5296
45°	4856	5054	5293
50°	4807	5025	5251
55°	4654	4958	5278
60°	4497	4904	5309
65°	4303	4829	5401
70°	4044	4736	5458
75°	3643	4652	5568
80°	2979	4568	5931
85°	1944	4548	5547

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6223 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	3.2
10°-20°	464.0	9.2
20°-30°	701.2	13.9
30°-40°	845.7	16.8
40°-50°	884.1	17.5
50°-60°	815.3	16.1
60°-70°	646.0	12.8
70°-80°	403.9	8.0
80°-90°	126.7	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°	1327.2	26.3
0°-40°	2172.9	43.0
0°-60°	3872.3	76.7
0°-90°	5049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1714	1714	1714	1714	1714	
5°	1691	1699	1706	1713	1708	161
15°	1625	1632	1648	1659	1654	458
25°	1504	1500	1520	1541	1550	690
35°	1314	1330	1351	1374	1382	824
45°	1096	1112	1141	1171	1195	849
55°	852	872	908	958	967	764
65°	581	605	652	703	729	575
75°	301	326	384	439	460	317
85°	54	77	127	148	154	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.2	1714.2	1714.2	1714.2	1714.2
2.5°	1698.7	1706.5	1712.6	1711.1	1718.8
5°	1691.0	1698.7	1706.5	1712.6	1708.0
7.5°	1681.8	1689.5	1698.7	1708.0	1698.7
10°	1666.3	1670.9	1687.9	1689.5	1686.4
12.5°	1652.4	1657.0	1669.4	1680.2	1683.3
15°	1624.6	1632.3	1647.8	1658.6	1654.0
17.5°	1596.8	1607.6	1621.5	1632.3	1632.3
20°	1565.9	1573.7	1590.6	1598.4	1612.3
22.5°	1530.4	1539.7	1553.6	1575.2	1582.9
25°	1504.2	1499.5	1519.6	1541.2	1550.5
27.5°	1451.6	1457.8	1485.6	1505.7	1513.4
30°	1419.2	1422.3	1437.8	1465.5	1474.8
32.5°	1362.1	1371.3	1399.1	1419.2	1436.2
35°	1314.2	1329.6	1351.3	1374.4	1382.2
37.5°	1272.5	1275.6	1300.3	1331.2	1337.4
40°	1210.7	1229.3	1247.8	1286.4	1295.7
42.5°	1162.9	1172.1	1198.4	1235.4	1249.3
45°	1096.5	1111.9	1141.2	1170.6	1195.3
47.5°	1037.8	1053.2	1091.8	1128.9	1133.5
50°	986.8	993.0	1031.6	1073.3	1077.9
52.5°	917.3	932.8	969.8	1016.2	1031.6
55°	852.5	872.5	908.1	957.5	966.7
57.5°	795.3	804.6	846.3	895.7	914.2
60°	718.1	744.4	783.0	830.8	847.8
62.5°	651.7	676.4	718.1	762.9	781.4
65°	580.7	605.4	651.7	702.7	728.9
67.5°	512.7	532.8	588.4	640.9	653.2
70°	441.7	464.8	517.3	571.4	596.1
72.5°	367.5	393.8	452.5	503.4	529.7
75°	301.1	325.8	384.5	438.6	460.2
77.5°	231.6	259.4	316.6	370.6	395.3
80°	165.2	193.0	253.3	307.3	328.9
82.5°	106.6	135.9	193.0	240.9	259.4
85°	54.1	77.2	126.6	148.3	154.4
87.5°	17.0	27.8	43.2	49.4	49.4
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	17.36	19.03	17.73	19.34	19.66	18.15	19.82	18.52	20.13	20.45
	3H	19.14	20.66	19.52	20.98	21.34	20.30	21.81	20.67	22.13	22.49
	4H	19.78	21.21	20.18	21.56	21.93	21.22	22.65	21.62	22.99	23.37
	6H	20.21	21.53	20.62	21.90	22.29	22.05	23.37	22.46	23.73	24.12
	8H	20.32	21.59	20.74	21.98	22.38	22.39	23.66	22.81	24.05	24.45
	12H	20.38	21.59	20.80	21.97	22.40	22.63	23.85	23.06	24.23	24.66
4H	2H	18.14	19.56	18.53	19.91	20.29	18.75	20.18	19.15	20.52	20.90
	3H	20.15	21.35	20.55	21.75	22.15	21.14	22.34	21.54	22.74	23.13
	4H	20.91	22.00	21.34	22.41	22.85	22.22	23.31	22.65	23.73	24.16
	6H	21.45	22.41	21.91	22.85	23.30	23.22	24.18	23.67	24.62	25.07
	8H	21.61	22.51	22.07	22.95	23.41	23.65	24.54	24.11	24.99	25.45
	12H	21.70	22.51	22.18	22.98	23.45	23.96	24.77	24.44	25.24	25.71
8H	4H	21.39	22.28	21.85	22.73	23.19	22.53	23.43	22.99	23.87	24.33
	6H	22.08	22.83	22.57	23.31	23.79	23.69	24.44	24.19	24.93	25.40
	8H	22.30	22.98	22.81	23.48	23.97	24.24	24.91	24.75	25.42	25.90
	12H	22.45	23.05	22.96	23.54	24.10	24.67	25.26	25.17	25.75	26.31
12H	4H	21.48	22.29	21.96	22.77	23.23	22.56	23.37	23.04	23.84	24.31
	6H	22.22	22.90	22.73	23.40	23.89	23.75	24.43	24.26	24.93	25.41
	8H	22.53	23.12	23.03	23.61	24.17	24.37	24.96	24.87	25.45	26.01