

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: P1586493

Luminaire Tested: 22CZSP-54HE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586493
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-L830
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

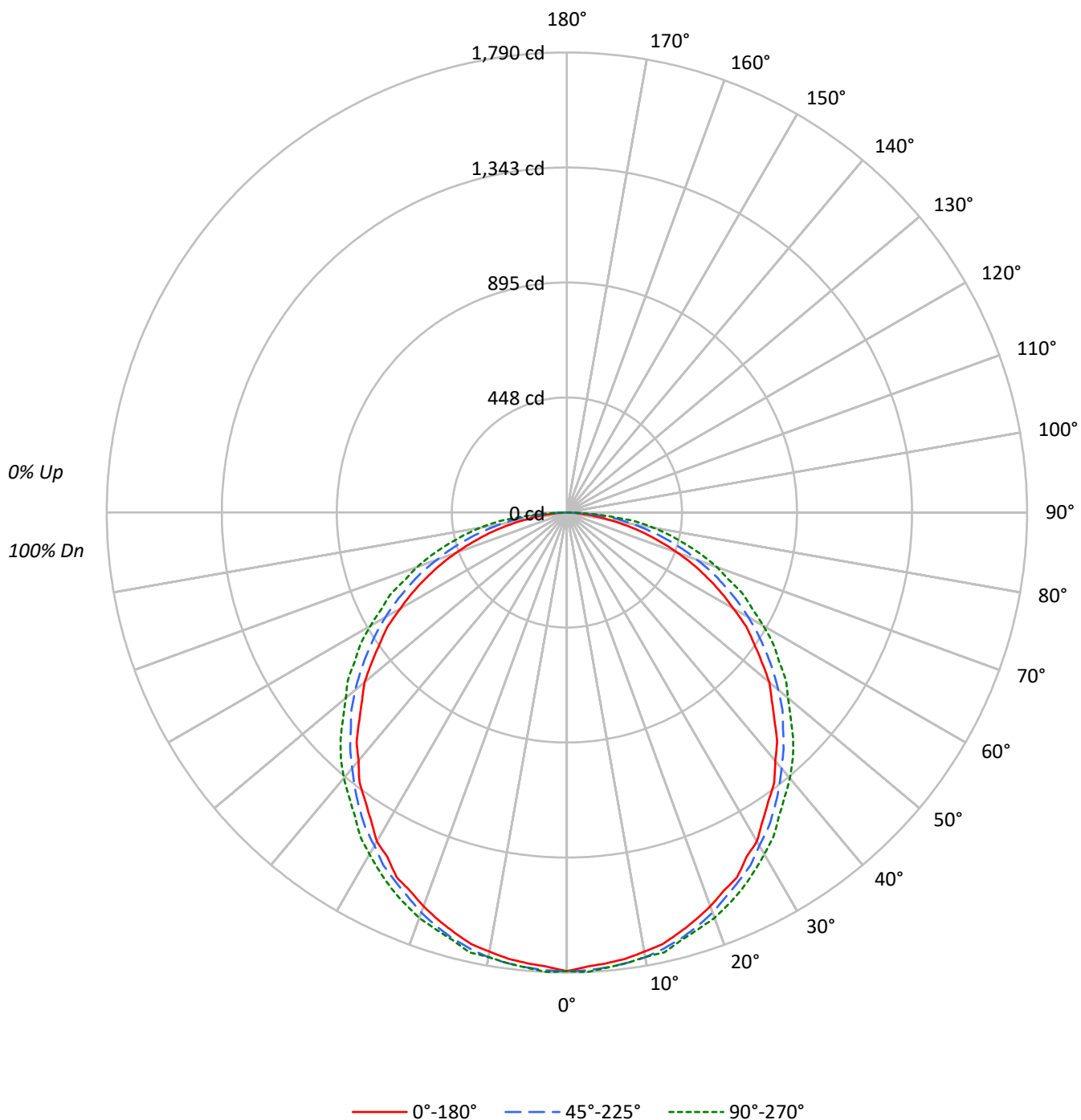
Lumens per Lamp: N/A
Luminaire Lumens: 5257.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	5589	5589	5589
5°	5534	5585	5590
10°	5517	5588	5583
15°	5483	5562	5583
20°	5433	5519	5594
25°	5411	5467	5578
30°	5343	5413	5552
35°	5231	5378	5501
40°	5153	5311	5515
45°	5055	5262	5511
50°	5005	5232	5467
55°	4846	5162	5495
60°	4683	5105	5529
65°	4480	5027	5623
70°	4211	4932	5683
75°	3793	4844	5798
80°	3102	4755	6176
85°	2023	4739	5777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	3.2
10°-20°	483.1	9.2
20°-30°	730.1	13.9
30°-40°	880.6	16.8
40°-50°	920.5	17.5
50°-60°	848.9	16.1
60°-70°	672.6	12.8
70°-80°	420.6	8.0
80°-90°	131.9	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°	1381.9	26.3
0°-40°	2262.4	43.0
0°-60°	4031.9	76.7
0°-90°	5257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1785	1785	1785	1785	1785	
5°	1761	1769	1777	1783	1778	167
15°	1692	1700	1716	1727	1722	477
25°	1566	1561	1582	1605	1614	718
35°	1368	1384	1407	1431	1439	858
45°	1142	1158	1188	1219	1244	884
55°	888	908	946	997	1007	796
65°	605	630	678	732	759	599
75°	314	339	400	457	479	330
85°	56	80	132	154	161	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.8	1784.8	1784.8	1784.8	1784.8
2.5°	1768.7	1776.8	1783.2	1781.6	1789.6
5°	1760.7	1768.7	1776.8	1783.2	1778.4
7.5°	1751.0	1759.1	1768.7	1778.4	1768.7
10°	1735.0	1739.8	1757.5	1759.1	1755.9
12.5°	1720.5	1725.3	1738.2	1749.4	1752.6
15°	1691.5	1699.6	1715.7	1726.9	1722.1
17.5°	1662.6	1673.9	1688.3	1699.6	1699.6
20°	1630.4	1638.5	1656.2	1664.2	1678.7
22.5°	1593.5	1603.1	1617.6	1640.1	1648.1
25°	1566.1	1561.3	1582.2	1604.7	1614.4
27.5°	1511.5	1517.9	1546.8	1567.7	1575.8
30°	1477.7	1480.9	1497.0	1525.9	1535.6
32.5°	1418.2	1427.8	1456.8	1477.7	1495.4
35°	1368.3	1384.4	1406.9	1431.1	1439.1
37.5°	1324.9	1328.1	1353.9	1386.0	1392.5
40°	1260.6	1279.9	1299.2	1339.4	1349.1
42.5°	1210.8	1220.4	1247.8	1286.3	1300.8
45°	1141.6	1157.7	1188.3	1218.8	1244.5
47.5°	1080.5	1096.6	1136.8	1175.4	1180.2
50°	1027.5	1033.9	1074.1	1117.5	1122.3
52.5°	955.1	971.2	1009.8	1058.0	1074.1
55°	887.6	908.5	945.5	996.9	1006.6
57.5°	828.1	837.7	881.1	932.6	951.9
60°	747.7	775.0	815.2	865.1	882.8
62.5°	678.5	704.3	747.7	794.3	813.6
65°	604.6	630.3	678.5	731.6	758.9
67.5°	533.8	554.7	612.6	667.3	680.2
70°	459.9	484.0	538.7	594.9	620.7
72.5°	382.7	410.0	471.1	524.2	551.5
75°	313.5	339.3	400.4	456.7	479.2
77.5°	241.2	270.1	329.6	385.9	411.6
80°	172.0	201.0	263.7	320.0	342.5
82.5°	110.9	141.5	201.0	250.8	270.1
85°	56.3	80.4	131.9	154.4	160.8
87.5°	17.7	28.9	45.0	51.5	51.5
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	17.50	19.17	17.87	19.48	19.80	18.29	19.96	18.66	20.27	20.59
	3H	19.28	20.80	19.66	21.12	21.48	20.44	21.95	20.81	22.28	22.63
	4H	19.92	21.35	20.32	21.70	22.07	21.36	22.79	21.76	23.14	23.51
	6H	20.35	21.68	20.76	22.04	22.43	22.19	23.51	22.60	23.88	24.27
	8H	20.46	21.73	20.88	22.12	22.52	22.53	23.80	22.96	24.19	24.59
	12H	20.52	21.73	20.94	22.11	22.54	22.77	23.99	23.20	24.37	24.80
4H	2H	18.28	19.70	18.67	20.05	20.43	18.89	20.32	19.29	20.66	21.04
	3H	20.29	21.49	20.69	21.89	22.29	21.28	22.48	21.68	22.88	23.27
	4H	21.05	22.14	21.48	22.55	22.99	22.36	23.46	22.79	23.87	24.30
	6H	21.59	22.55	22.05	22.99	23.45	23.36	24.32	23.81	24.76	25.21
	8H	21.75	22.65	22.21	23.09	23.55	23.79	24.69	24.25	25.13	25.59
	12H	21.84	22.65	22.32	23.12	23.59	24.10	24.91	24.58	25.38	25.85
8H	4H	21.53	22.42	21.99	22.87	23.33	22.67	23.57	23.13	24.01	24.47
	6H	22.22	22.97	22.71	23.45	23.93	23.83	24.58	24.33	25.07	25.54
	8H	22.44	23.12	22.95	23.62	24.11	24.38	25.05	24.89	25.56	26.04
	12H	22.59	23.19	23.10	23.68	24.24	24.81	25.41	25.31	25.89	26.45
12H	4H	21.62	22.43	22.10	22.91	23.37	22.70	23.51	23.18	23.98	24.45
	6H	22.36	23.04	22.87	23.54	24.03	23.89	24.57	24.40	25.07	25.56
	8H	22.67	23.26	23.17	23.75	24.31	24.51	25.10	25.01	25.59	26.15