

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: P1586500

Luminaire Tested: 22CZSP-54HE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586500
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-54HE-L850-S
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

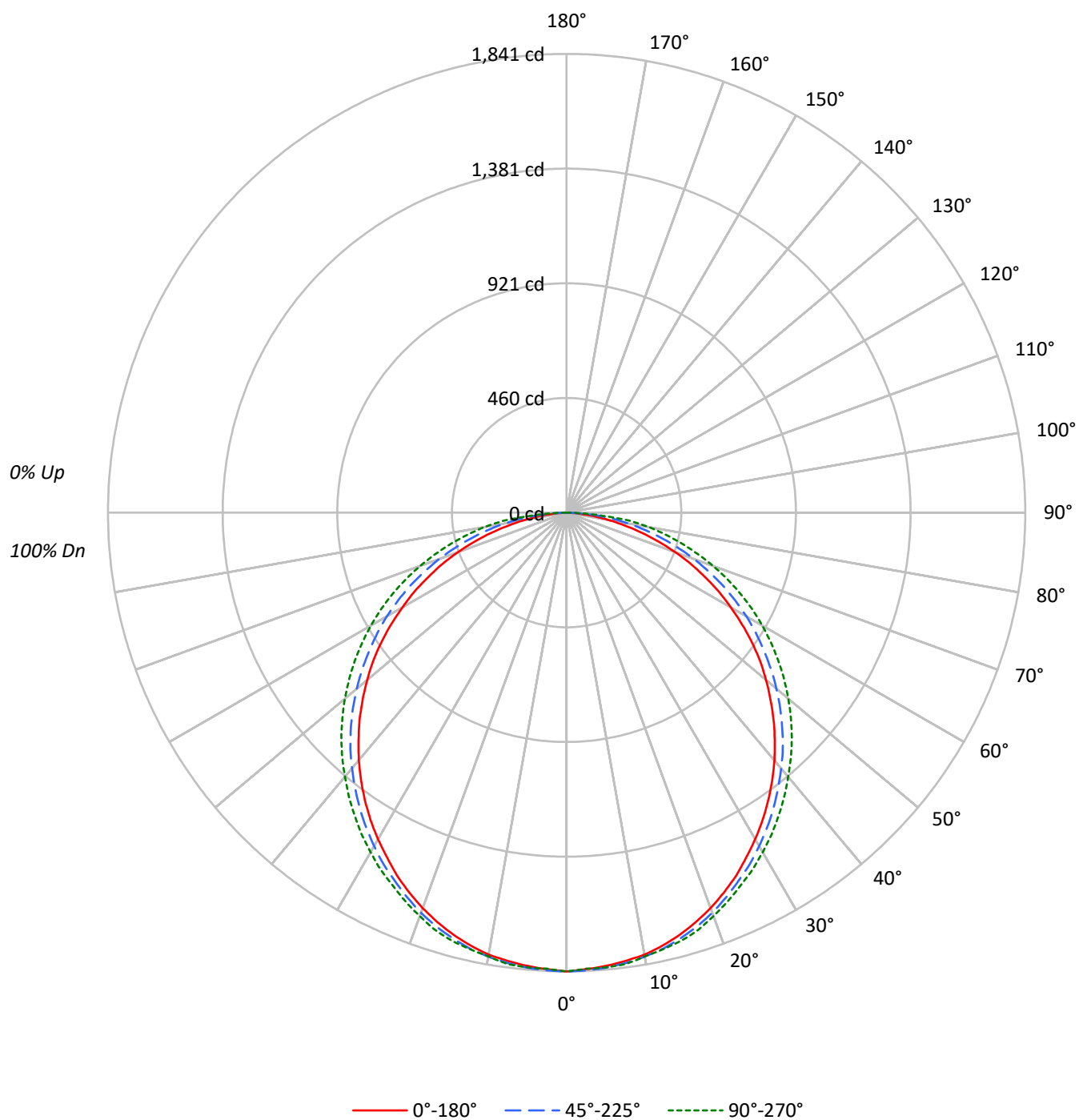
Lumens per Lamp: N/A
Luminaire Lumens: 5376.0 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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°	5766	5766	5766
5°	5740	5762	5759
10°	5727	5754	5750
15°	5686	5732	5767
20°	5629	5696	5743
25°	5559	5637	5706
30°	5472	5587	5690
35°	5393	5533	5673
40°	5304	5478	5656
45°	5203	5423	5663
50°	5092	5356	5660
55°	4959	5281	5667
60°	4772	5223	5681
65°	4554	5122	5699
70°	4244	4979	5724
75°	3782	4781	5781
80°	3127	4551	6063
85°	2034	4110	5299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	3.2
10°-20°	498.7	9.3
20°-30°	752.1	14.0
30°-40°	905.8	16.8
40°-50°	946.0	17.6
50°-60°	868.8	16.2
60°-70°	684.3	12.7
70°-80°	419.8	7.8
80°-90°	126.3	2.4
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°	1424.9	26.5
0°-40°	2330.7	43.4
0°-60°	4145.5	77.1
0°-90°	5376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1826	1828	1833	1839	1832	174
15°	1754	1758	1768	1779	1779	495
25°	1609	1613	1631	1652	1652	741
35°	1411	1418	1447	1477	1484	882
45°	1175	1188	1224	1267	1279	906
55°	908	925	967	1022	1038	811
65°	615	636	691	749	769	608
75°	313	337	395	458	478	331
85°	57	78	114	145	148	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1841.4	1841.4	1841.4	1841.4	1841.4
2.5°	1834.3	1837.9	1839.1	1840.2	1832.0
5°	1826.1	1828.4	1833.2	1839.1	1832.0
7.5°	1814.3	1816.7	1822.5	1830.8	1827.3
10°	1801.3	1802.5	1809.6	1815.5	1808.4
12.5°	1780.1	1783.6	1791.9	1796.6	1794.2
15°	1754.1	1757.7	1768.3	1778.9	1778.9
17.5°	1723.5	1728.2	1741.2	1755.3	1756.5
20°	1689.2	1692.8	1709.3	1723.5	1723.5
22.5°	1650.3	1655.0	1671.6	1686.9	1689.2
25°	1609.0	1612.6	1631.4	1651.5	1651.5
27.5°	1560.7	1567.7	1591.3	1611.4	1616.1
30°	1513.5	1519.4	1545.3	1570.1	1573.6
32.5°	1463.9	1471.0	1498.1	1525.3	1531.2
35°	1410.9	1417.9	1447.4	1476.9	1484.0
37.5°	1355.4	1363.7	1394.3	1428.5	1435.6
40°	1297.6	1307.0	1340.1	1376.6	1383.7
42.5°	1236.3	1249.2	1284.6	1322.4	1333.0
45°	1174.9	1187.9	1224.5	1266.9	1278.7
47.5°	1110.0	1125.4	1163.1	1208.0	1220.9
50°	1045.2	1060.5	1099.4	1147.8	1161.9
52.5°	979.1	994.4	1034.5	1085.3	1100.6
55°	908.3	924.8	967.3	1021.6	1038.1
57.5°	835.2	856.4	901.2	956.7	973.2
60°	762.0	783.3	834.0	888.3	907.1
62.5°	690.1	710.1	762.0	819.9	839.9
65°	614.6	635.8	691.3	749.1	769.1
67.5°	540.3	561.5	617.0	677.1	698.3
70°	463.6	487.2	543.8	604.0	625.2
72.5°	386.9	411.7	469.5	530.8	550.9
75°	312.6	337.4	395.2	457.7	477.8
77.5°	239.5	266.6	323.2	386.9	405.8
80°	173.4	199.4	252.4	315.0	336.2
82.5°	110.9	133.3	186.4	245.4	260.7
85°	56.6	77.9	114.4	145.1	147.5
87.5°	17.7	24.8	37.7	56.6	57.8
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	17.56	19.23	17.93	19.54	19.86	18.40	20.06	18.76	20.37	20.69
	3H	19.32	20.83	19.70	21.15	21.51	20.51	22.02	20.89	22.35	22.70
	4H	19.94	21.36	20.34	21.71	22.08	21.40	22.82	21.80	23.17	23.54
	6H	20.35	21.67	20.76	22.03	22.42	22.18	23.50	22.59	23.87	24.26
	8H	20.46	21.72	20.88	22.11	22.51	22.50	23.76	22.93	24.15	24.55
	12H	20.51	21.72	20.94	22.10	22.53	22.71	23.92	23.14	24.31	24.73
4H	2H	18.34	19.76	18.73	20.11	20.48	18.98	20.41	19.38	20.75	21.13
	3H	20.31	21.51	20.72	21.91	22.31	21.34	22.54	21.75	22.93	23.33
	4H	21.05	22.14	21.48	22.55	22.98	22.39	23.48	22.82	23.89	24.32
	6H	21.58	22.53	22.03	22.97	23.43	23.34	24.29	23.80	24.73	25.19
	8H	21.73	22.62	22.18	23.06	23.52	23.74	24.63	24.20	25.07	25.54
	12H	21.81	22.61	22.29	23.09	23.56	24.02	24.82	24.50	25.29	25.76
8H	4H	21.51	22.40	21.97	22.84	23.31	22.68	23.57	23.14	24.01	24.48
	6H	22.17	22.92	22.66	23.40	23.88	23.79	24.54	24.28	25.02	25.50
	8H	22.38	23.05	22.89	23.56	24.04	24.30	24.97	24.81	25.48	25.96
	12H	22.52	23.11	23.03	23.60	24.16	24.69	25.28	25.19	25.77	26.33
12H	4H	21.60	22.40	22.08	22.88	23.35	22.70	23.51	23.18	23.98	24.45
	6H	22.30	22.97	22.81	23.48	23.96	23.84	24.51	24.35	25.01	25.50
	8H	22.58	23.17	23.09	23.66	24.22	24.42	25.01	24.92	25.50	26.06