

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: P1586501

Luminaire Tested: 22CZSP-54HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586501
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-L850
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

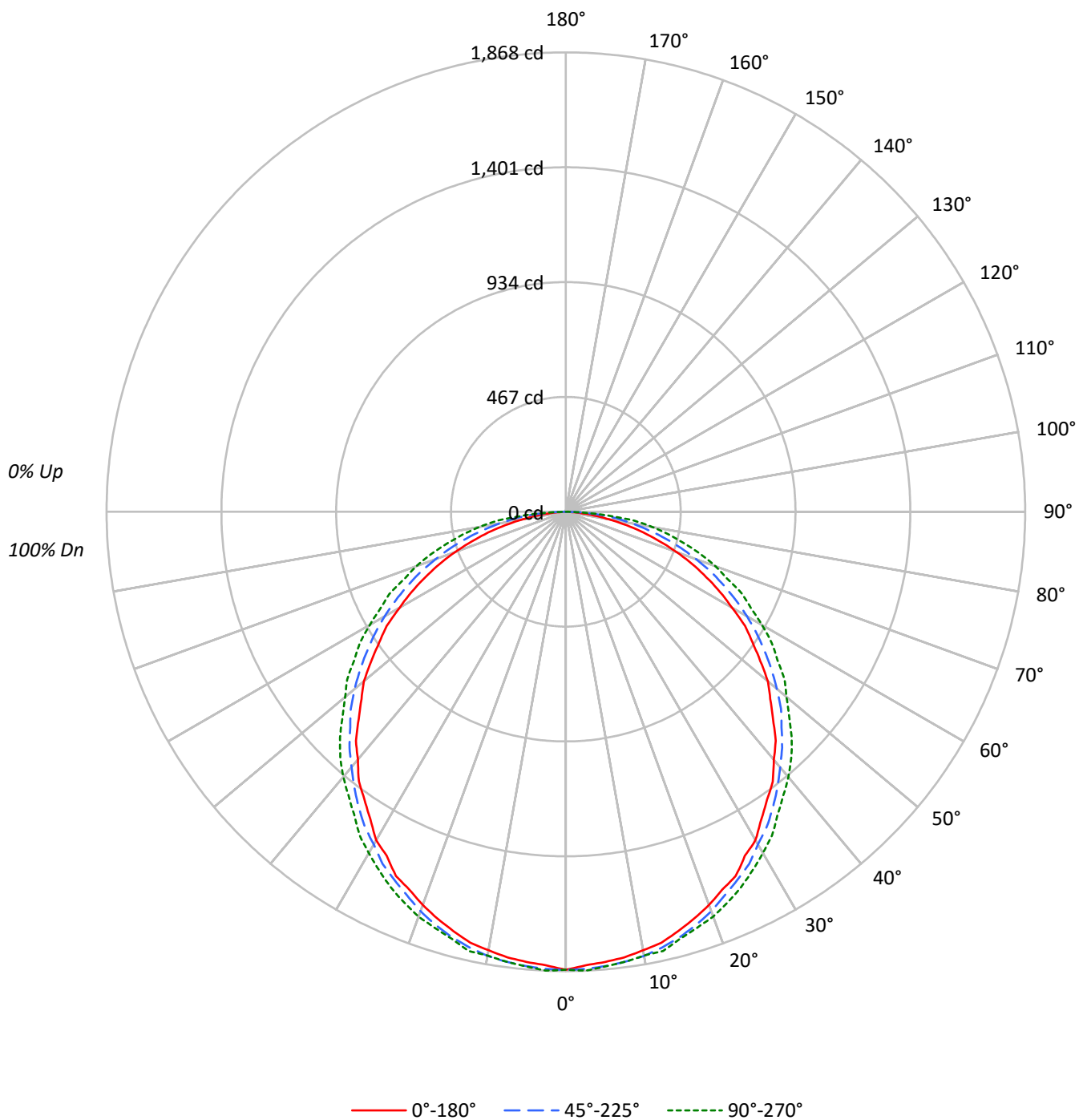
Lumens per Lamp: N/A
Luminaire Lumens: 5486.0 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

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	50	30	10
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°	5832	5832	5832
5°	5775	5828	5833
10°	5757	5831	5826
15°	5722	5804	5826
20°	5670	5759	5838
25°	5647	5705	5821
30°	5576	5649	5794
35°	5459	5612	5741
40°	5377	5542	5755
45°	5276	5491	5751
50°	5223	5460	5705
55°	5056	5386	5734
60°	4887	5328	5769
65°	4675	5247	5868
70°	4394	5146	5930
75°	3959	5055	6049
80°	3237	4963	6445
85°	2109	4944	6029

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	3.2
10°-20°	504.1	9.2
20°-30°	761.9	13.9
30°-40°	918.9	16.8
40°-50°	960.6	17.5
50°-60°	885.9	16.1
60°-70°	701.9	12.8
70°-80°	438.9	8.0
80°-90°	137.7	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°	1442.1	26.3
0°-40°	2361.0	43.0
0°-60°	4207.5	76.7
0°-90°	5486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1837	1846	1854	1861	1856	175
15°	1765	1774	1790	1802	1797	498
25°	1634	1629	1651	1675	1685	750
35°	1428	1445	1468	1493	1502	896
45°	1191	1208	1240	1272	1299	922
55°	926	948	987	1040	1050	830
65°	631	658	708	764	792	625
75°	327	354	418	476	500	345
85°	59	84	138	161	168	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.5	1862.5	1862.5	1862.5	1862.5
2.5°	1845.8	1854.2	1860.9	1859.2	1867.6
5°	1837.4	1845.8	1854.2	1860.9	1855.8
7.5°	1827.3	1835.7	1845.8	1855.8	1845.8
10°	1810.5	1815.6	1834.0	1835.7	1832.3
12.5°	1795.4	1800.5	1813.9	1825.6	1829.0
15°	1765.2	1773.6	1790.4	1802.1	1797.1
17.5°	1735.0	1746.8	1761.9	1773.6	1773.6
20°	1701.5	1709.9	1728.3	1736.7	1751.8
22.5°	1662.9	1672.9	1688.0	1711.5	1719.9
25°	1634.3	1629.3	1651.1	1674.6	1684.7
27.5°	1577.3	1584.0	1614.2	1636.0	1644.4
30°	1542.1	1545.4	1562.2	1592.4	1602.5
32.5°	1480.0	1490.0	1520.2	1542.1	1560.5
35°	1428.0	1444.7	1468.2	1493.4	1501.8
37.5°	1382.6	1386.0	1412.9	1446.4	1453.1
40°	1315.5	1335.7	1355.8	1397.7	1407.8
42.5°	1263.5	1273.6	1302.1	1342.4	1357.5
45°	1191.4	1208.1	1240.0	1271.9	1298.7
47.5°	1127.6	1144.4	1186.3	1226.6	1231.6
50°	1072.2	1078.9	1120.9	1166.2	1171.2
52.5°	996.7	1013.5	1053.8	1104.1	1120.9
55°	926.2	948.1	986.6	1040.3	1050.4
57.5°	864.2	874.2	919.5	973.2	993.4
60°	780.3	808.8	850.7	902.7	921.2
62.5°	708.1	735.0	780.3	828.9	849.1
65°	630.9	657.8	708.1	763.5	792.0
67.5°	557.1	578.9	639.3	696.4	709.8
70°	479.9	505.1	562.1	620.8	647.7
72.5°	399.4	427.9	491.6	547.0	575.5
75°	327.2	354.1	417.8	476.5	500.0
77.5°	251.7	281.9	344.0	402.7	429.6
80°	179.5	209.7	275.2	333.9	357.4
82.5°	115.8	147.7	209.7	261.8	281.9
85°	58.7	83.9	137.6	161.1	167.8
87.5°	18.5	30.2	47.0	53.7	53.7
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	17.65	19.32	18.02	19.63	19.95	18.44	20.11	18.81	20.42	20.74
	3H	19.43	20.95	19.81	21.27	21.63	20.58	22.10	20.96	22.42	22.78
	4H	20.07	21.50	20.47	21.85	22.22	21.51	22.94	21.91	23.28	23.66
	6H	20.50	21.82	20.91	22.19	22.58	22.33	23.66	22.74	24.02	24.41
	8H	20.61	21.88	21.03	22.27	22.66	22.68	23.95	23.10	24.34	24.73
	12H	20.66	21.88	21.09	22.26	22.69	22.92	24.14	23.35	24.52	24.95
4H	2H	18.42	19.85	18.82	20.20	20.57	19.04	20.47	19.44	20.81	21.19
	3H	20.43	21.64	20.84	22.03	22.43	21.42	22.63	21.83	23.02	23.42
	4H	21.20	22.29	21.63	22.70	23.13	22.51	23.60	22.94	24.02	24.45
	6H	21.74	22.70	22.20	23.14	23.59	23.51	24.47	23.96	24.91	25.36
	8H	21.90	22.80	22.36	23.24	23.70	23.94	24.83	24.39	25.27	25.74
	12H	21.99	22.80	22.46	23.27	23.74	24.25	25.06	24.73	25.53	26.00
8H	4H	21.68	22.57	22.13	23.01	23.48	22.82	23.72	23.28	24.16	24.62
	6H	22.36	23.11	22.86	23.60	24.07	23.98	24.73	24.47	25.22	25.69
	8H	22.59	23.27	23.10	23.77	24.26	24.53	25.20	25.03	25.71	26.19
	12H	22.74	23.34	23.25	23.83	24.38	24.96	25.55	25.46	26.04	26.60
12H	4H	21.77	22.58	22.25	23.06	23.52	22.85	23.66	23.33	24.13	24.60
	6H	22.51	23.19	23.02	23.69	24.18	24.04	24.71	24.55	25.22	25.70
	8H	22.82	23.41	23.32	23.90	24.46	24.66	25.25	25.16	25.74	26.30