

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: P1588390

Luminaire Tested: 24CZSP-57-L950-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588390
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: 24CZSP-57-L950-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

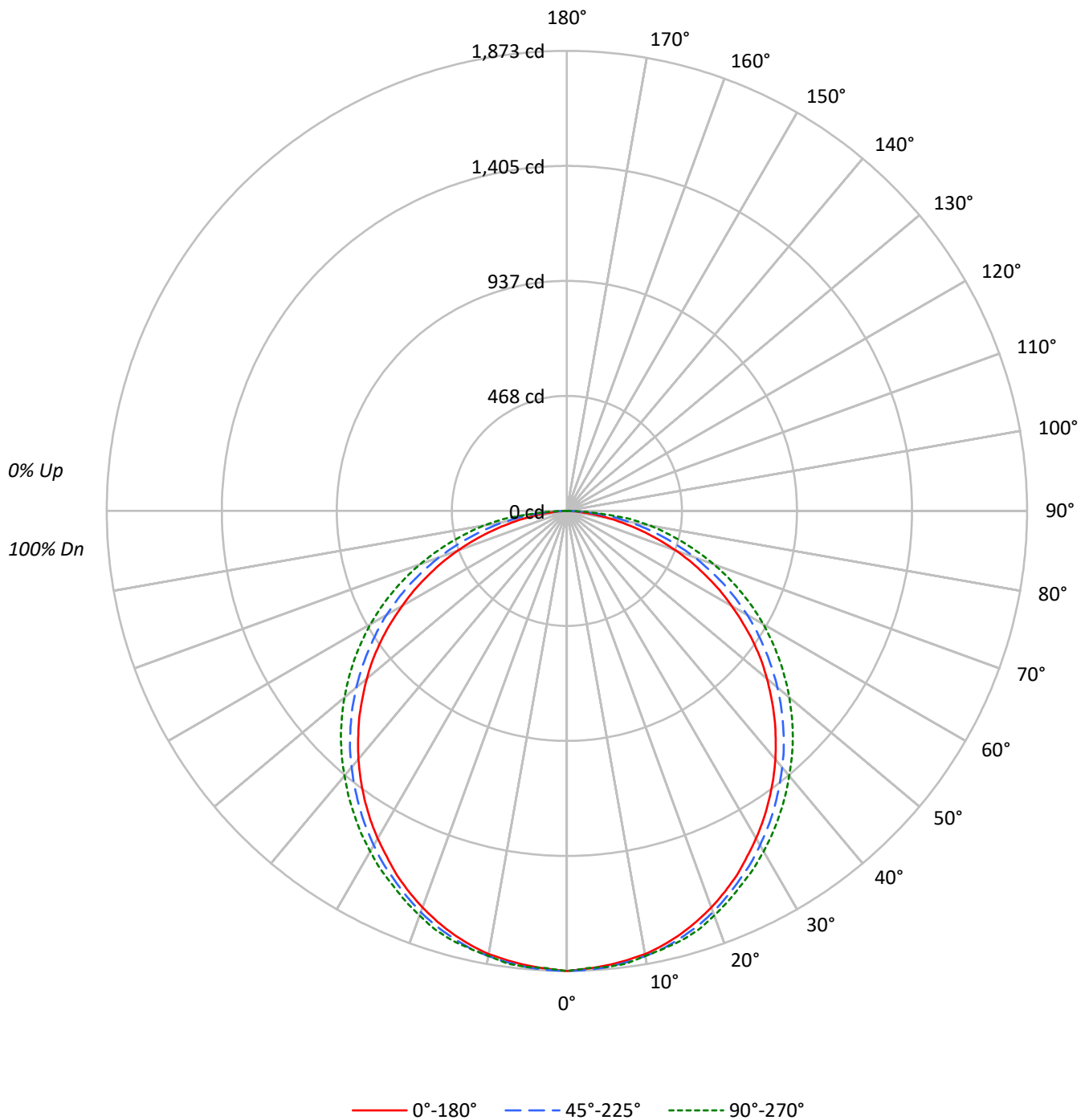
Lumens per Lamp: N/A
Luminaire Lumens: 5469.0 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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°	2869	2869	2869
5°	2856	2867	2865
10°	2850	2863	2861
15°	2830	2852	2870
20°	2801	2834	2858
25°	2766	2805	2839
30°	2723	2780	2831
35°	2684	2753	2823
40°	2639	2726	2815
45°	2589	2698	2818
50°	2533	2665	2816
55°	2467	2628	2820
60°	2375	2599	2827
65°	2266	2548	2836
70°	2112	2477	2848
75°	1882	2379	2876
80°	1556	2265	3017
85°	1012	2046	2636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.2	3.2
10°-20°	507.3	9.3
20°-30°	765.1	14.0
30°-40°	921.5	16.9
40°-50°	962.4	17.6
50°-60°	883.8	16.2
60°-70°	696.1	12.7
70°-80°	427.1	7.8
80°-90°	128.5	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°	1449.6	26.5
0°-40°	2371.1	43.4
0°-60°	4217.3	77.1
0°-90°	5469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1858	1860	1865	1871	1864	177
15°	1784	1788	1799	1810	1810	503
25°	1637	1640	1660	1680	1680	753
35°	1435	1442	1472	1502	1510	898
45°	1195	1208	1246	1289	1301	922
55°	924	941	984	1039	1056	825
65°	625	647	703	762	782	619
75°	318	343	402	466	486	337
85°	58	79	116	148	150	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1873.3	1873.3	1873.3	1873.3	1873.3
2.5°	1866.1	1869.7	1870.9	1872.1	1863.7
5°	1857.7	1860.1	1864.9	1870.9	1863.7
7.5°	1845.7	1848.1	1854.1	1862.5	1858.9
10°	1832.5	1833.7	1840.9	1846.9	1839.7
12.5°	1810.9	1814.5	1822.9	1827.7	1825.3
15°	1784.5	1788.1	1798.9	1809.7	1809.7
17.5°	1753.3	1758.1	1771.3	1785.7	1786.9
20°	1718.5	1722.1	1738.9	1753.3	1753.3
22.5°	1678.9	1683.7	1700.5	1716.1	1718.5
25°	1636.9	1640.5	1659.7	1680.1	1680.1
27.5°	1587.7	1594.9	1618.9	1639.3	1644.1
30°	1539.7	1545.7	1572.1	1597.3	1600.9
32.5°	1489.3	1496.5	1524.1	1551.7	1557.7
35°	1435.3	1442.5	1472.5	1502.5	1509.7
37.5°	1378.9	1387.3	1418.5	1453.3	1460.5
40°	1320.1	1329.7	1363.3	1400.5	1407.7
42.5°	1257.7	1270.9	1306.9	1345.3	1356.1
45°	1195.3	1208.5	1245.7	1288.9	1300.9
47.5°	1129.2	1144.8	1183.2	1228.9	1242.1
50°	1063.2	1078.8	1118.4	1167.6	1182.0
52.5°	996.0	1011.6	1052.4	1104.0	1119.6
55°	924.0	940.8	984.0	1039.2	1056.0
57.5°	849.6	871.2	916.8	973.2	990.0
60°	775.2	796.8	848.4	903.6	922.8
62.5°	702.0	722.4	775.2	834.0	854.4
65°	625.2	646.8	703.2	762.0	782.4
67.5°	549.6	571.2	627.6	688.8	710.4
70°	471.6	495.6	553.2	614.4	636.0
72.5°	393.6	418.8	477.6	540.0	560.4
75°	318.0	343.2	402.0	465.6	486.0
77.5°	243.6	271.2	328.8	393.6	412.8
80°	176.4	202.8	256.8	320.4	342.0
82.5°	112.8	135.6	189.6	249.6	265.2
85°	57.6	79.2	116.4	147.6	150.0
87.5°	18.0	25.2	38.4	57.6	58.8
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	15.14	16.80	15.50	17.12	17.43	15.97	17.63	16.33	17.95	18.26
	3H	16.90	18.40	17.27	18.73	19.09	18.09	19.59	18.46	19.92	20.28
	4H	17.51	18.94	17.91	19.28	19.66	18.98	20.40	19.37	20.74	21.12
	6H	17.92	19.25	18.34	19.61	20.00	19.76	21.08	20.17	21.44	21.83
	8H	18.03	19.30	18.46	19.68	20.08	20.08	21.34	20.50	21.73	22.13
	12H	18.08	19.29	18.51	19.68	20.10	20.29	21.50	20.72	21.88	22.31
4H	2H	15.91	17.33	16.31	17.68	18.06	16.56	17.98	16.96	18.33	18.70
	3H	17.89	19.09	18.30	19.48	19.88	18.91	20.11	19.32	20.51	20.91
	4H	18.63	19.71	19.06	20.12	20.56	19.96	21.05	20.40	21.46	21.90
	6H	19.15	20.11	19.61	20.55	21.00	20.92	21.87	21.37	22.31	22.76
	8H	19.30	20.19	19.76	20.63	21.10	21.31	22.21	21.77	22.65	23.11
	12H	19.38	20.19	19.86	20.66	21.13	21.59	22.40	22.07	22.87	23.34
8H	4H	19.08	19.98	19.54	20.42	20.88	20.25	21.15	20.71	21.59	22.05
	6H	19.75	20.49	20.24	20.98	21.45	21.37	22.11	21.86	22.60	23.07
	8H	19.96	20.63	20.46	21.13	21.61	21.88	22.55	22.38	23.05	23.54
	12H	20.10	20.69	20.60	21.18	21.74	22.26	22.86	22.77	23.34	23.90
12H	4H	19.17	19.98	19.65	20.45	20.92	20.28	21.08	20.76	21.56	22.02
	6H	19.88	20.55	20.38	21.05	21.54	21.41	22.08	21.92	22.59	23.07
	8H	20.16	20.75	20.66	21.24	21.80	21.99	22.58	22.50	23.07	23.63

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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