

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: P1588411

Luminaire Tested: 24CZSP-57HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-57HE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

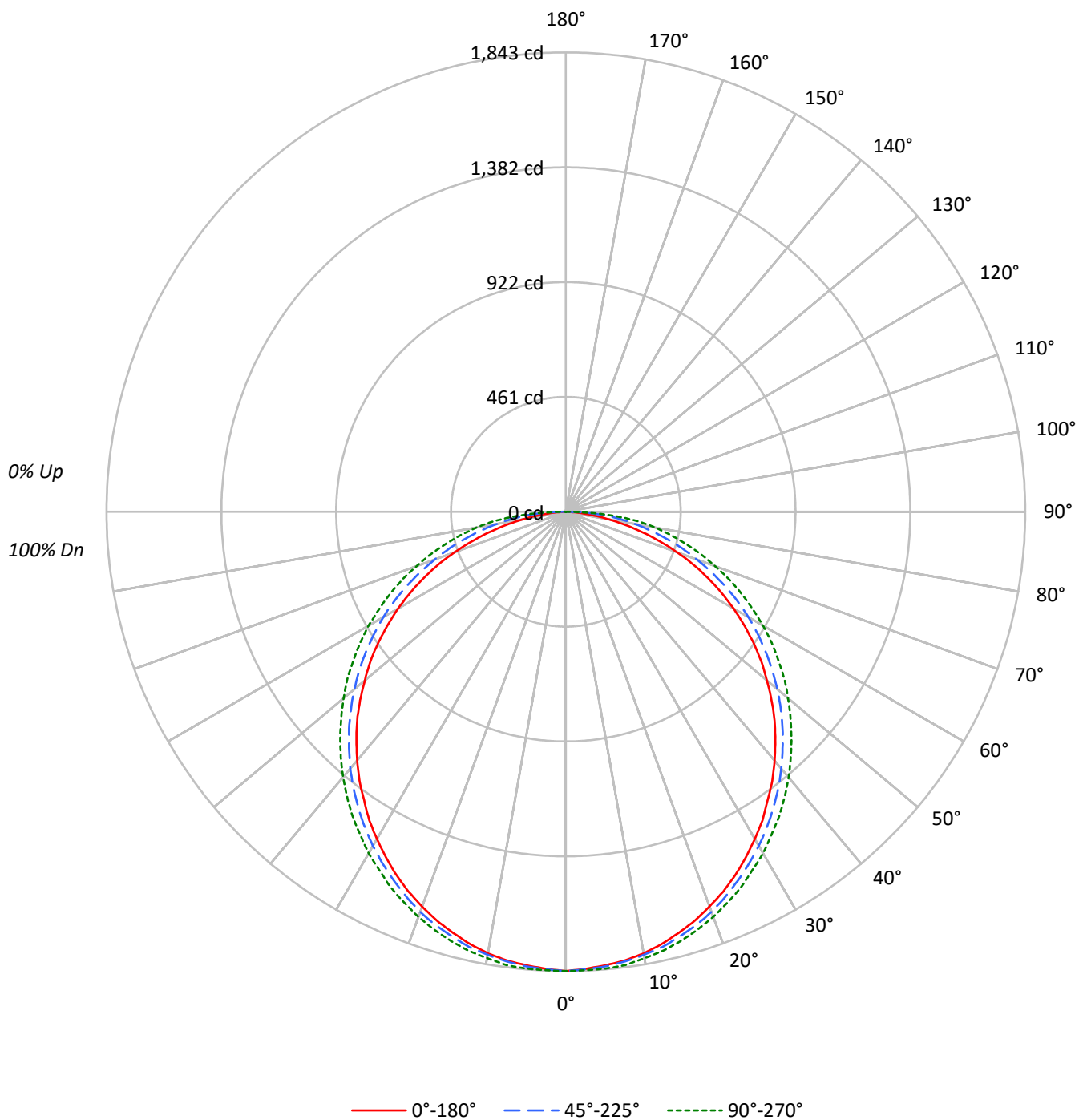
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5467.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2823	2823	2823
5°	2808	2815	2829
10°	2798	2807	2829
15°	2773	2798	2826
20°	2747	2784	2819
25°	2718	2759	2810
30°	2681	2738	2799
35°	2640	2713	2790
40°	2605	2689	2780
45°	2566	2664	2773
50°	2509	2639	2773
55°	2457	2614	2780
60°	2382	2591	2800
65°	2281	2550	2818
70°	2134	2507	2853
75°	1898	2471	2946
80°	1561	2482	3203
85°	1063	2766	3536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3536 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	3.2
10°-20°	499.4	9.1
20°-30°	755.2	13.8
30°-40°	911.2	16.7
40°-50°	952.8	17.4
50°-60°	879.1	16.1
60°-70°	699.0	12.8
70°-80°	441.2	8.1
80°-90°	154.7	2.8
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°	1429.0	26.1
0°-40°	2340.2	42.8
0°-60°	4172.1	76.3
0°-90°	5467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1826	1840	1831	1835	1840	174
15°	1749	1769	1764	1778	1782	494
25°	1608	1633	1633	1654	1663	741
35°	1412	1442	1451	1480	1492	885
45°	1185	1210	1230	1266	1280	912
55°	920	947	979	1026	1041	822
65°	629	658	704	763	778	622
75°	321	357	418	480	498	340
85°	60	100	157	195	201	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.9	1842.9	1842.9	1842.9	1842.9
2.5°	1835.4	1847.5	1836.9	1842.9	1841.4
5°	1826.3	1839.9	1830.8	1835.4	1839.9
7.5°	1815.7	1830.8	1820.2	1827.8	1833.9
10°	1799.1	1814.2	1805.1	1814.2	1818.7
12.5°	1776.4	1794.5	1788.5	1799.1	1803.6
15°	1749.1	1768.8	1764.3	1777.9	1782.4
17.5°	1720.4	1741.6	1738.5	1753.7	1758.2
20°	1685.6	1709.8	1708.3	1723.4	1729.5
22.5°	1649.3	1673.5	1672.0	1688.6	1696.2
25°	1608.4	1632.6	1632.6	1653.8	1662.9
27.5°	1563.0	1590.3	1591.8	1613.0	1620.5
30°	1516.1	1543.4	1547.9	1570.6	1582.7
32.5°	1467.7	1493.4	1501.0	1526.7	1535.8
35°	1411.7	1442.0	1451.1	1479.8	1491.9
37.5°	1360.3	1387.5	1399.6	1429.9	1442.0
40°	1302.8	1331.5	1345.1	1378.4	1390.5
42.5°	1243.8	1272.5	1287.6	1324.0	1336.1
45°	1184.7	1210.5	1230.1	1266.5	1280.1
47.5°	1119.7	1148.4	1169.6	1209.0	1222.6
50°	1053.1	1083.4	1107.6	1149.9	1163.6
52.5°	989.6	1016.8	1044.0	1090.9	1106.1
55°	920.0	947.2	979.0	1025.9	1041.0
57.5°	848.8	876.1	912.4	962.3	979.0
60°	777.7	805.0	845.8	897.3	913.9
62.5°	703.6	730.8	776.2	829.2	844.3
65°	629.4	658.2	703.6	762.6	777.7
67.5°	553.8	582.5	631.0	693.0	709.6
70°	476.6	508.4	559.8	621.9	637.0
72.5°	396.4	432.7	490.2	550.8	568.9
75°	320.8	357.1	417.6	479.6	497.8
77.5°	246.6	287.5	348.0	413.1	432.7
80°	177.0	217.9	281.4	345.0	363.1
82.5°	113.5	155.8	219.4	279.9	295.1
85°	60.5	99.9	157.4	195.2	201.2
87.5°	19.7	51.4	71.1	93.8	95.3
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	15.16	16.83	15.53	17.15	17.46	15.88	17.55	16.25	17.87	18.18
	3H	16.95	18.47	17.33	18.79	19.15	18.05	19.57	18.43	19.89	20.25
	4H	17.58	19.01	17.98	19.36	19.73	18.98	20.42	19.38	20.76	21.14
	6H	18.00	19.33	18.41	19.70	20.09	19.84	21.17	20.25	21.54	21.93
	8H	18.11	19.39	18.54	19.78	20.17	20.22	21.49	20.64	21.88	22.28
	12H	18.17	19.39	18.60	19.78	20.20	20.53	21.75	20.96	22.13	22.56
4H	2H	15.93	17.36	16.32	17.71	18.08	16.49	17.92	16.88	18.27	18.64
	3H	17.95	19.16	18.36	19.55	19.95	18.90	20.11	19.31	20.50	20.90
	4H	18.71	19.81	19.14	20.22	20.66	20.00	21.10	20.43	21.51	21.95
	6H	19.27	20.23	19.72	20.67	21.12	21.04	22.01	21.50	22.45	22.90
	8H	19.42	20.33	19.88	20.77	21.23	21.51	22.41	21.97	22.85	23.32
	12H	19.52	20.34	20.00	20.81	21.28	21.90	22.72	22.38	23.19	23.66
8H	4H	19.20	20.10	19.66	20.54	21.01	20.32	21.22	20.78	21.66	22.13
	6H	19.91	20.66	20.40	21.15	21.62	21.54	22.29	22.03	22.78	23.25
	8H	20.15	20.83	20.66	21.33	21.82	22.13	22.81	22.64	23.32	23.80
	12H	20.32	20.92	20.83	21.41	21.97	22.68	23.28	23.18	23.77	24.33
12H	4H	19.30	20.12	19.78	20.59	21.06	20.35	21.17	20.83	21.64	22.11
	6H	20.07	20.75	20.57	21.25	21.74	21.60	22.28	22.11	22.79	23.27
	8H	20.39	21.00	20.90	21.49	22.04	22.28	22.88	22.78	23.37	23.93