

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: P1588745

Luminaire Tested: 24CZSP-A-57HE-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588745
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-A-57HE-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

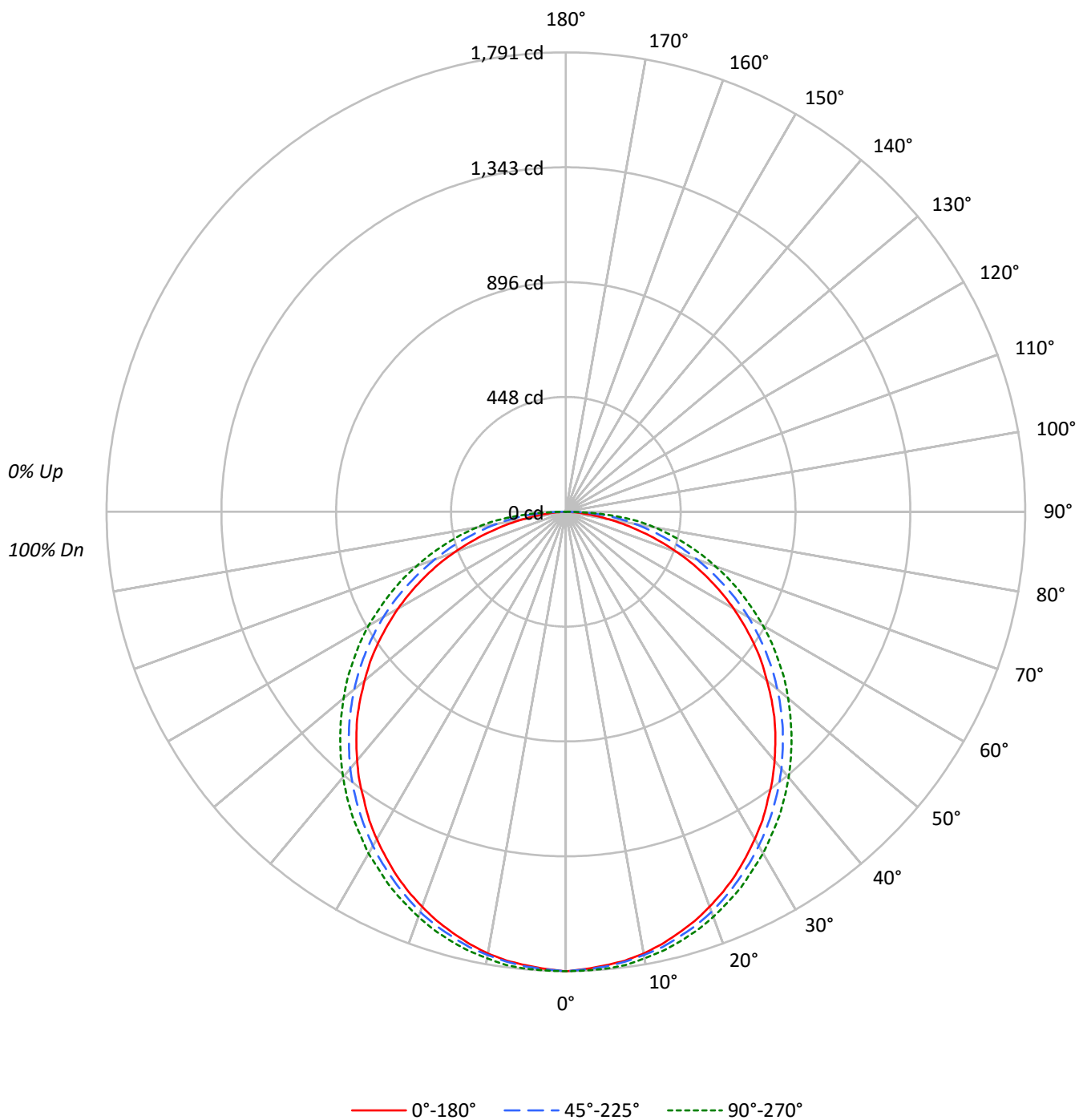
Lumens per Lamp: N/A
Luminaire Lumens: 5314.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2744	2744	2744
5°	2729	2736	2750
10°	2720	2729	2749
15°	2696	2719	2747
20°	2670	2706	2740
25°	2642	2682	2731
30°	2606	2661	2721
35°	2566	2637	2712
40°	2532	2614	2702
45°	2494	2590	2695
50°	2439	2565	2695
55°	2388	2541	2702
60°	2316	2518	2721
65°	2217	2479	2740
70°	2075	2437	2773
75°	1845	2402	2864
80°	1518	2413	3114
85°	1033	2689	3437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3437 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	3.2
10°-20°	485.4	9.1
20°-30°	734.0	13.8
30°-40°	885.7	16.7
40°-50°	926.2	17.4
50°-60°	854.5	16.1
60°-70°	679.5	12.8
70°-80°	428.8	8.1
80°-90°	150.4	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°	1389.0	26.1
0°-40°	2274.7	42.8
0°-60°	4055.4	76.3
0°-90°	5314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1791	1791	1791	1791	1791	
5°	1775	1788	1780	1784	1788	169
15°	1700	1719	1715	1728	1732	480
25°	1563	1587	1587	1608	1616	720
35°	1372	1402	1410	1438	1450	860
45°	1152	1177	1196	1231	1244	887
55°	894	921	952	997	1012	799
65°	612	640	684	741	756	605
75°	312	347	406	466	484	331
85°	59	97	153	190	196	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1791.4	1791.4	1791.4	1791.4	1791.4
2.5°	1784.0	1795.8	1785.5	1791.4	1789.9
5°	1775.2	1788.4	1779.6	1784.0	1788.4
7.5°	1764.9	1779.6	1769.3	1776.7	1782.5
10°	1748.7	1763.4	1754.6	1763.4	1767.8
12.5°	1726.7	1744.3	1738.4	1748.7	1753.1
15°	1700.2	1719.3	1714.9	1728.1	1732.5
17.5°	1672.2	1692.8	1689.9	1704.6	1709.0
20°	1638.4	1661.9	1660.5	1675.2	1681.1
22.5°	1603.1	1626.6	1625.2	1641.4	1648.7
25°	1563.4	1586.9	1586.9	1607.5	1616.3
27.5°	1519.3	1545.8	1547.2	1567.8	1575.2
30°	1473.7	1500.2	1504.6	1526.6	1538.4
32.5°	1426.6	1451.6	1459.0	1484.0	1492.8
35°	1372.2	1401.6	1410.4	1438.4	1450.2
37.5°	1322.2	1348.7	1360.4	1389.9	1401.6
40°	1266.3	1294.3	1307.5	1339.8	1351.6
42.5°	1209.0	1236.9	1251.6	1286.9	1298.7
45°	1151.6	1176.6	1195.7	1231.0	1244.2
47.5°	1088.4	1116.3	1136.9	1175.1	1188.4
50°	1023.6	1053.1	1076.6	1117.8	1131.0
52.5°	961.9	988.3	1014.8	1060.4	1075.1
55°	894.2	920.7	951.6	997.2	1011.9
57.5°	825.1	851.6	886.9	935.4	951.6
60°	756.0	782.4	822.1	872.2	888.3
62.5°	683.9	710.4	754.5	806.0	820.7
65°	611.8	639.8	683.9	741.3	756.0
67.5°	538.3	566.2	613.3	673.6	689.8
70°	463.3	494.2	544.2	604.5	619.2
72.5°	385.3	420.6	476.5	535.4	553.0
75°	311.8	347.1	405.9	466.2	483.9
77.5°	239.7	279.4	338.3	401.5	420.6
80°	172.1	211.8	273.6	335.3	353.0
82.5°	110.3	151.5	213.3	272.1	286.8
85°	58.8	97.1	153.0	189.7	195.6
87.5°	19.1	50.0	69.1	91.2	92.7
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	15.06	16.74	15.43	17.05	17.36	15.79	17.46	16.15	17.77	18.08
	3H	16.85	18.37	17.23	18.69	19.05	17.95	19.47	18.33	19.79	20.15
	4H	17.48	18.91	17.88	19.26	19.64	18.89	20.32	19.28	20.66	21.04
	6H	17.90	19.24	18.31	19.60	19.99	19.74	21.08	20.15	21.44	21.83
	8H	18.02	19.29	18.44	19.68	20.08	20.12	21.39	20.54	21.78	22.18
	12H	18.07	19.30	18.50	19.68	20.11	20.43	21.65	20.86	22.03	22.46
4H	2H	15.83	17.26	16.23	17.61	17.98	16.39	17.82	16.79	18.17	18.54
	3H	17.85	19.06	18.26	19.46	19.86	18.80	20.01	19.21	20.41	20.81
	4H	18.61	19.71	19.04	20.12	20.56	19.90	21.00	20.33	21.41	21.85
	6H	19.17	20.13	19.62	20.57	21.02	20.94	21.91	21.40	22.35	22.80
	8H	19.33	20.23	19.78	20.67	21.13	21.41	22.31	21.87	22.75	23.22
	12H	19.42	20.24	19.90	20.71	21.18	21.81	22.62	22.28	23.09	23.56
8H	4H	19.10	20.00	19.56	20.45	20.91	20.22	21.12	20.68	21.57	22.03
	6H	19.81	20.57	20.30	21.05	21.53	21.44	22.20	21.93	22.68	23.15
	8H	20.05	20.73	20.56	21.24	21.72	22.04	22.72	22.54	23.22	23.70
	12H	20.22	20.83	20.73	21.31	21.87	22.58	23.18	23.08	23.67	24.23
12H	4H	19.20	20.02	19.68	20.49	20.96	20.25	21.07	20.73	21.54	22.01
	6H	19.97	20.65	20.48	21.16	21.64	21.50	22.18	22.01	22.69	23.17
	8H	20.29	20.90	20.80	21.39	21.94	22.18	22.78	22.68	23.27	23.83