

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: P1588392

Luminaire Tested: 24CZSP-57HE-L830-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588392
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-57HE-L830-S
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 5500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

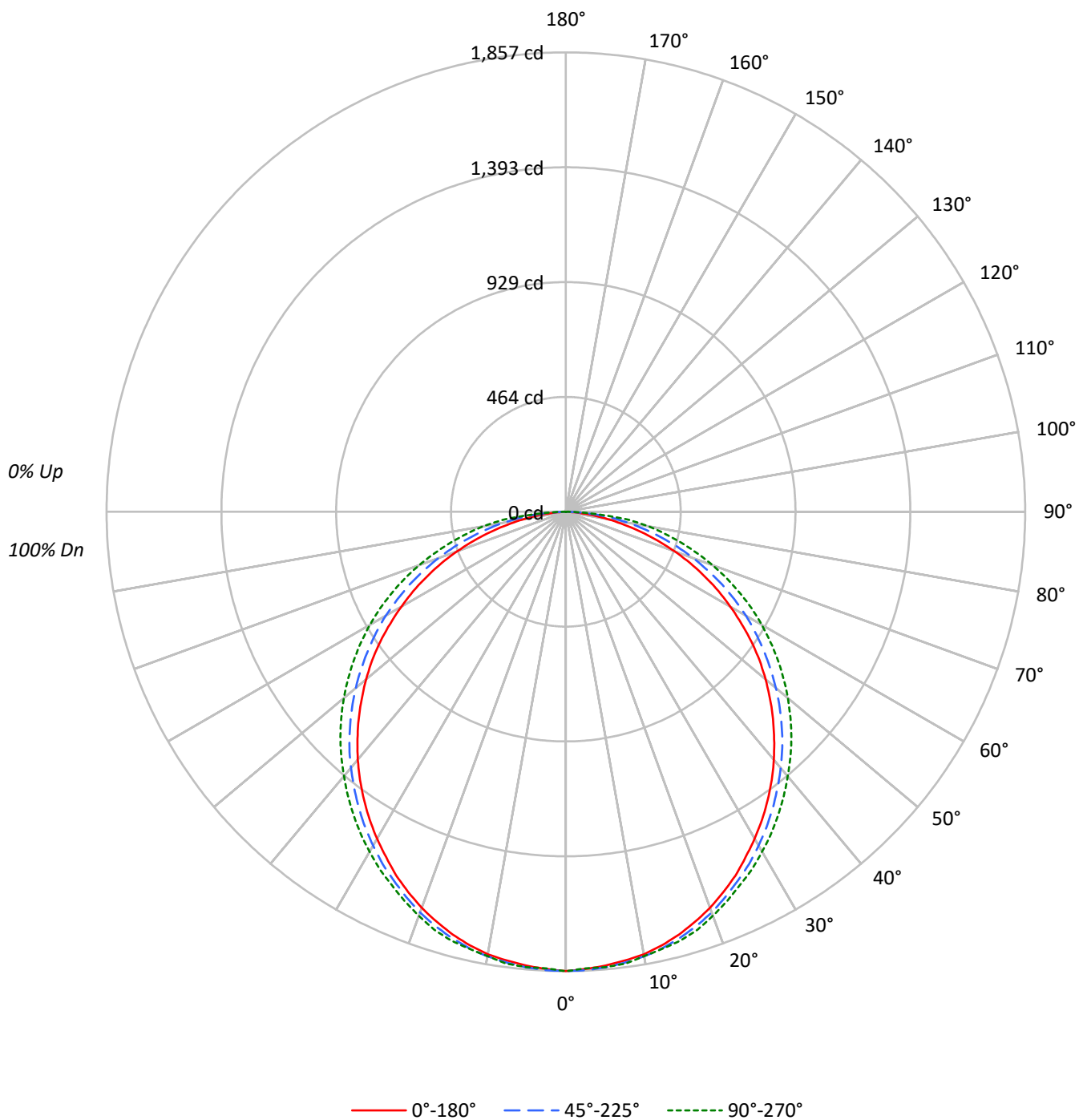
Lumens per Lamp: N/A
Luminaire Lumens: 5421.0 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2844	2844	2844
5°	2831	2842	2840
10°	2825	2838	2836
15°	2805	2827	2844
20°	2776	2809	2833
25°	2742	2780	2814
30°	2699	2756	2806
35°	2660	2729	2798
40°	2616	2702	2790
45°	2566	2674	2793
50°	2511	2642	2792
55°	2446	2605	2795
60°	2354	2576	2802
65°	2246	2526	2811
70°	2094	2456	2823
75°	1865	2358	2851
80°	1543	2246	2990
85°	1003	2028	2613

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.2
10°-20°	502.8	9.3
20°-30°	758.4	14.0
30°-40°	913.4	16.8
40°-50°	953.9	17.6
50°-60°	876.1	16.2
60°-70°	690.0	12.7
70°-80°	423.3	7.8
80°-90°	127.4	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°	1436.8	26.5
0°-40°	2350.2	43.4
0°-60°	4180.3	77.1
0°-90°	5421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1841	1844	1848	1854	1847	175
15°	1769	1772	1783	1794	1794	499
25°	1622	1626	1645	1665	1665	747
35°	1423	1430	1460	1489	1496	890
45°	1185	1198	1235	1278	1289	913
55°	916	933	975	1030	1047	818
65°	620	641	697	755	776	613
75°	315	340	398	462	482	334
85°	57	78	115	146	149	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1856.8	1856.8	1856.8	1856.8	1856.8
2.5°	1849.7	1853.3	1854.5	1855.6	1847.3
5°	1841.4	1843.8	1848.5	1854.5	1847.3
7.5°	1829.5	1831.9	1837.8	1846.1	1842.6
10°	1816.4	1817.6	1824.7	1830.7	1823.5
12.5°	1795.0	1798.6	1806.9	1811.6	1809.3
15°	1768.8	1772.4	1783.1	1793.8	1793.8
17.5°	1737.9	1742.6	1755.7	1770.0	1771.2
20°	1703.4	1707.0	1723.6	1737.9	1737.9
22.5°	1664.1	1668.9	1685.5	1701.0	1703.4
25°	1622.5	1626.1	1645.1	1665.3	1665.3
27.5°	1573.7	1580.9	1604.7	1624.9	1629.6
30°	1526.2	1532.1	1558.3	1583.2	1586.8
32.5°	1476.2	1483.3	1510.7	1538.0	1544.0
35°	1422.7	1429.8	1459.5	1489.3	1496.4
37.5°	1366.8	1375.1	1406.0	1440.5	1447.6
40°	1308.5	1318.0	1351.3	1388.2	1395.3
42.5°	1246.6	1259.7	1295.4	1333.4	1344.2
45°	1184.8	1197.8	1234.7	1277.5	1289.4
47.5°	1119.3	1134.8	1172.9	1218.1	1231.2
50°	1053.9	1069.4	1108.6	1157.4	1171.7
52.5°	987.3	1002.8	1043.2	1094.4	1109.8
55°	915.9	932.6	975.4	1030.1	1046.8
57.5°	842.2	863.6	908.8	964.7	981.4
60°	768.4	789.8	841.0	895.7	914.7
62.5°	695.9	716.1	768.4	826.7	846.9
65°	619.7	641.2	697.1	755.3	775.6
67.5°	544.8	566.2	622.1	682.8	704.2
70°	467.5	491.3	548.4	609.0	630.4
72.5°	390.2	415.1	473.4	535.3	555.5
75°	315.2	340.2	398.5	461.5	481.8
77.5°	241.5	268.8	325.9	390.2	409.2
80°	174.9	201.0	254.6	317.6	339.0
82.5°	111.8	134.4	187.9	247.4	262.9
85°	57.1	78.5	115.4	146.3	148.7
87.5°	17.8	25.0	38.1	57.1	58.3
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	15.11	16.77	15.47	17.09	17.40	15.94	17.60	16.30	17.92	18.23
	3H	16.87	18.37	17.24	18.70	19.06	18.06	19.56	18.43	19.89	20.25
	4H	17.48	18.91	17.88	19.25	19.63	18.95	20.37	19.34	20.71	21.09
	6H	17.89	19.22	18.31	19.58	19.97	19.73	21.05	20.14	21.41	21.80
	8H	18.00	19.26	18.43	19.65	20.05	20.05	21.31	20.47	21.70	22.10
	12H	18.05	19.26	18.48	19.65	20.07	20.26	21.47	20.69	21.85	22.28
4H	2H	15.88	17.30	16.28	17.65	18.03	16.53	17.95	16.93	18.30	18.67
	3H	17.86	19.06	18.27	19.45	19.85	18.88	20.08	19.29	20.48	20.88
	4H	18.60	19.68	19.03	20.09	20.53	19.93	21.02	20.37	21.43	21.87
	6H	19.12	20.08	19.58	20.52	20.97	20.89	21.84	21.34	22.28	22.73
	8H	19.27	20.16	19.73	20.60	21.07	21.28	22.18	21.74	22.62	23.08
	12H	19.35	20.16	19.83	20.63	21.10	21.56	22.36	22.04	22.84	23.31
8H	4H	19.05	19.95	19.51	20.39	20.85	20.22	21.12	20.68	21.56	22.02
	6H	19.72	20.46	20.21	20.95	21.42	21.34	22.08	21.83	22.57	23.04
	8H	19.93	20.59	20.43	21.10	21.58	21.85	22.52	22.35	23.02	23.51
	12H	20.07	20.66	20.57	21.15	21.71	22.23	22.82	22.74	23.31	23.87
12H	4H	19.14	19.95	19.62	20.42	20.89	20.25	21.05	20.73	21.53	21.99
	6H	19.85	20.52	20.35	21.02	21.51	21.38	22.05	21.89	22.56	23.04
	8H	20.13	20.72	20.63	21.21	21.77	21.96	22.55	22.47	23.04	23.60