

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: P1588738

Luminaire Tested: 24CZSP-A-57HE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588738
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-A-57HE-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

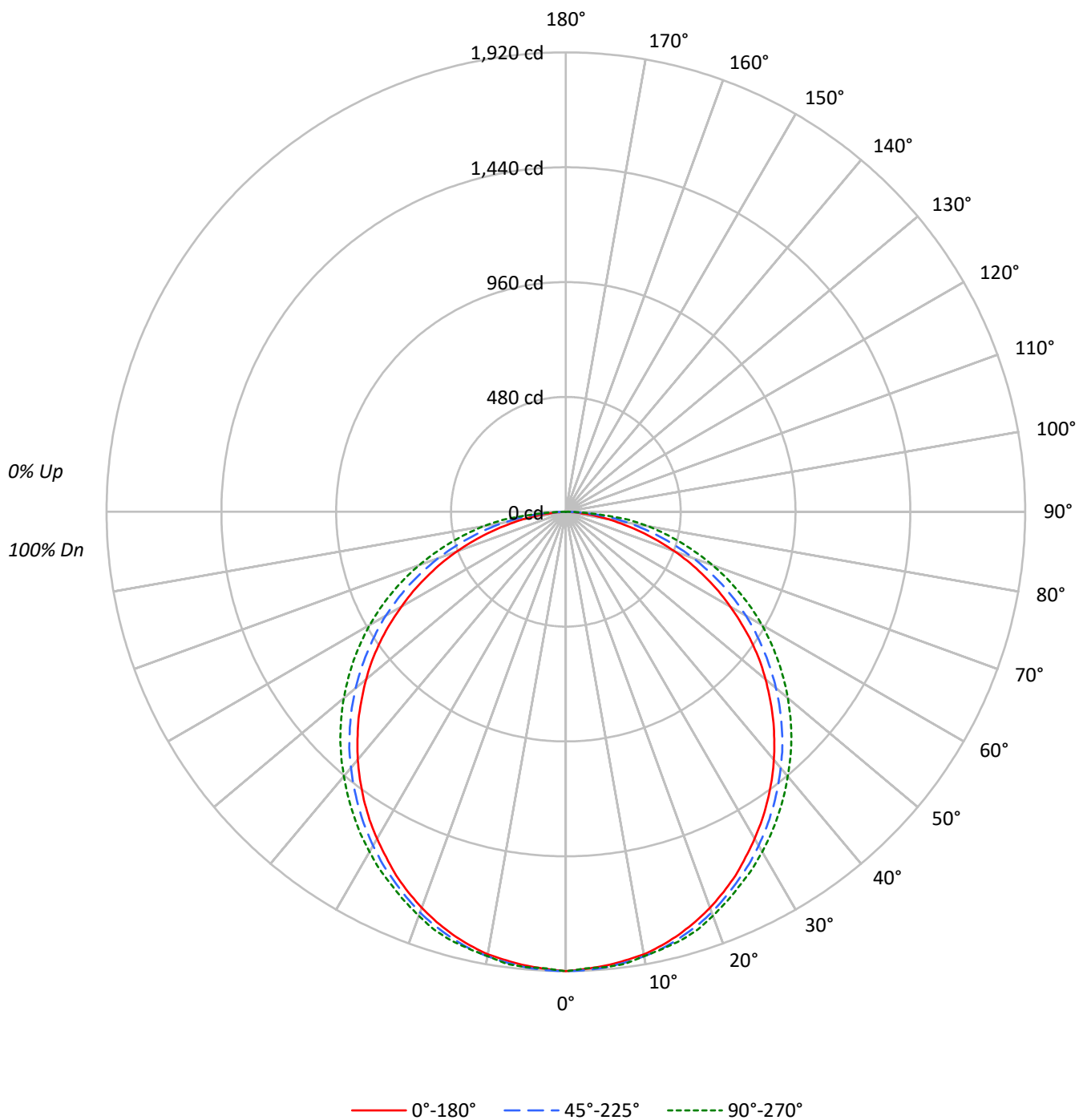
Lumens per Lamp: N/A
Luminaire Lumens: 5606.0 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2941	2941	2941
5°	2928	2939	2937
10°	2921	2935	2933
15°	2900	2924	2941
20°	2871	2905	2929
25°	2836	2875	2910
30°	2791	2850	2902
35°	2751	2822	2893
40°	2705	2794	2885
45°	2654	2766	2888
50°	2597	2732	2887
55°	2529	2694	2891
60°	2434	2664	2898
65°	2323	2612	2907
70°	2165	2540	2920
75°	1929	2439	2948
80°	1595	2321	3092
85°	1037	2097	2703

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3191 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	3.2
10°-20°	520.0	9.3
20°-30°	784.2	14.0
30°-40°	944.6	16.8
40°-50°	986.5	17.6
50°-60°	906.0	16.2
60°-70°	713.6	12.7
70°-80°	437.8	7.8
80°-90°	131.7	2.4
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°	1485.8	26.5
0°-40°	2430.4	43.4
0°-60°	4322.9	77.1
0°-90°	5606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1904	1907	1912	1918	1910	181
15°	1829	1833	1844	1855	1855	516
25°	1678	1682	1701	1722	1722	772
35°	1471	1479	1509	1540	1548	920
45°	1225	1239	1277	1321	1333	945
55°	947	964	1009	1065	1082	846
65°	641	663	721	781	802	634
75°	326	352	412	477	498	346
85°	59	81	119	151	154	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1912.8	1916.5	1917.7	1919.0	1910.4
5°	1904.2	1906.7	1911.6	1917.7	1910.4
7.5°	1891.9	1894.4	1900.5	1909.1	1905.4
10°	1878.4	1879.6	1887.0	1893.1	1885.8
12.5°	1856.2	1859.9	1868.5	1873.5	1871.0
15°	1829.2	1832.9	1843.9	1855.0	1855.0
17.5°	1797.2	1802.1	1815.6	1830.4	1831.6
20°	1761.5	1765.2	1782.4	1797.2	1797.2
22.5°	1720.9	1725.8	1743.1	1759.1	1761.5
25°	1677.9	1681.6	1701.2	1722.2	1722.2
27.5°	1627.4	1634.8	1659.4	1680.3	1685.3
30°	1578.2	1584.4	1611.4	1637.3	1641.0
32.5°	1526.6	1533.9	1562.2	1590.5	1596.7
35°	1471.2	1478.6	1509.3	1540.1	1547.5
37.5°	1413.4	1422.0	1454.0	1489.7	1497.0
40°	1353.1	1363.0	1397.4	1435.5	1442.9
42.5°	1289.2	1302.7	1339.6	1379.0	1390.0
45°	1225.2	1238.7	1276.9	1321.1	1333.4
47.5°	1157.5	1173.5	1212.9	1259.6	1273.2
50°	1089.9	1105.9	1146.5	1196.9	1211.7
52.5°	1021.0	1037.0	1078.8	1131.7	1147.7
55°	947.2	964.4	1008.7	1065.3	1082.5
57.5°	870.9	893.1	939.8	997.6	1014.8
60°	794.7	816.8	869.7	926.3	946.0
62.5°	719.6	740.5	794.7	854.9	875.8
65°	640.9	663.0	720.8	781.1	802.0
67.5°	563.4	585.5	643.3	706.1	728.2
70°	483.4	508.0	567.1	629.8	652.0
72.5°	403.5	429.3	489.6	553.6	574.5
75°	326.0	351.8	412.1	477.3	498.2
77.5°	249.7	278.0	337.1	403.5	423.2
80°	180.8	207.9	263.2	328.4	350.6
82.5°	115.6	139.0	194.4	255.9	271.9
85°	59.0	81.2	119.3	151.3	153.8
87.5°	18.5	25.8	39.4	59.0	60.3
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	15.23	16.89	15.59	17.20	17.52	16.06	17.72	16.42	18.03	18.35
	3H	16.98	18.49	17.36	18.81	19.17	18.17	19.68	18.55	20.01	20.37
	4H	17.60	19.02	18.00	19.37	19.74	19.06	20.48	19.46	20.83	21.21
	6H	18.01	19.33	18.42	19.70	20.09	19.84	21.16	20.25	21.53	21.92
	8H	18.12	19.38	18.54	19.77	20.17	20.16	21.43	20.59	21.81	22.21
	12H	18.17	19.38	18.60	19.76	20.19	20.37	21.58	20.80	21.97	22.39
4H	2H	16.00	17.42	16.40	17.77	18.14	16.64	18.07	17.04	18.41	18.79
	3H	17.97	19.17	18.38	19.57	19.97	19.00	20.20	19.41	20.59	20.99
	4H	18.71	19.80	19.14	20.21	20.65	20.05	21.14	20.48	21.55	21.98
	6H	19.24	20.19	19.69	20.63	21.09	21.00	21.96	21.46	22.40	22.85
	8H	19.39	20.28	19.85	20.72	21.18	21.40	22.29	21.86	22.73	23.20
	12H	19.47	20.27	19.95	20.75	21.22	21.68	22.48	22.16	22.96	23.42
8H	4H	19.17	20.06	19.63	20.50	20.97	20.34	21.23	20.80	21.67	22.14
	6H	19.83	20.58	20.32	21.06	21.54	21.45	22.20	21.94	22.68	23.16
	8H	20.04	20.71	20.55	21.22	21.70	21.96	22.63	22.47	23.14	23.62
	12H	20.18	20.77	20.69	21.26	21.82	22.35	22.94	22.85	23.43	23.99
12H	4H	19.26	20.06	19.74	20.54	21.01	20.36	21.17	20.84	21.64	22.11
	6H	19.96	20.63	20.47	21.14	21.62	21.50	22.17	22.01	22.67	23.16
	8H	20.24	20.83	20.75	21.32	21.88	22.08	22.67	22.58	23.16	23.72