

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: P1588401

Luminaire Tested: 24CZSP-57HE-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588401
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-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 5500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

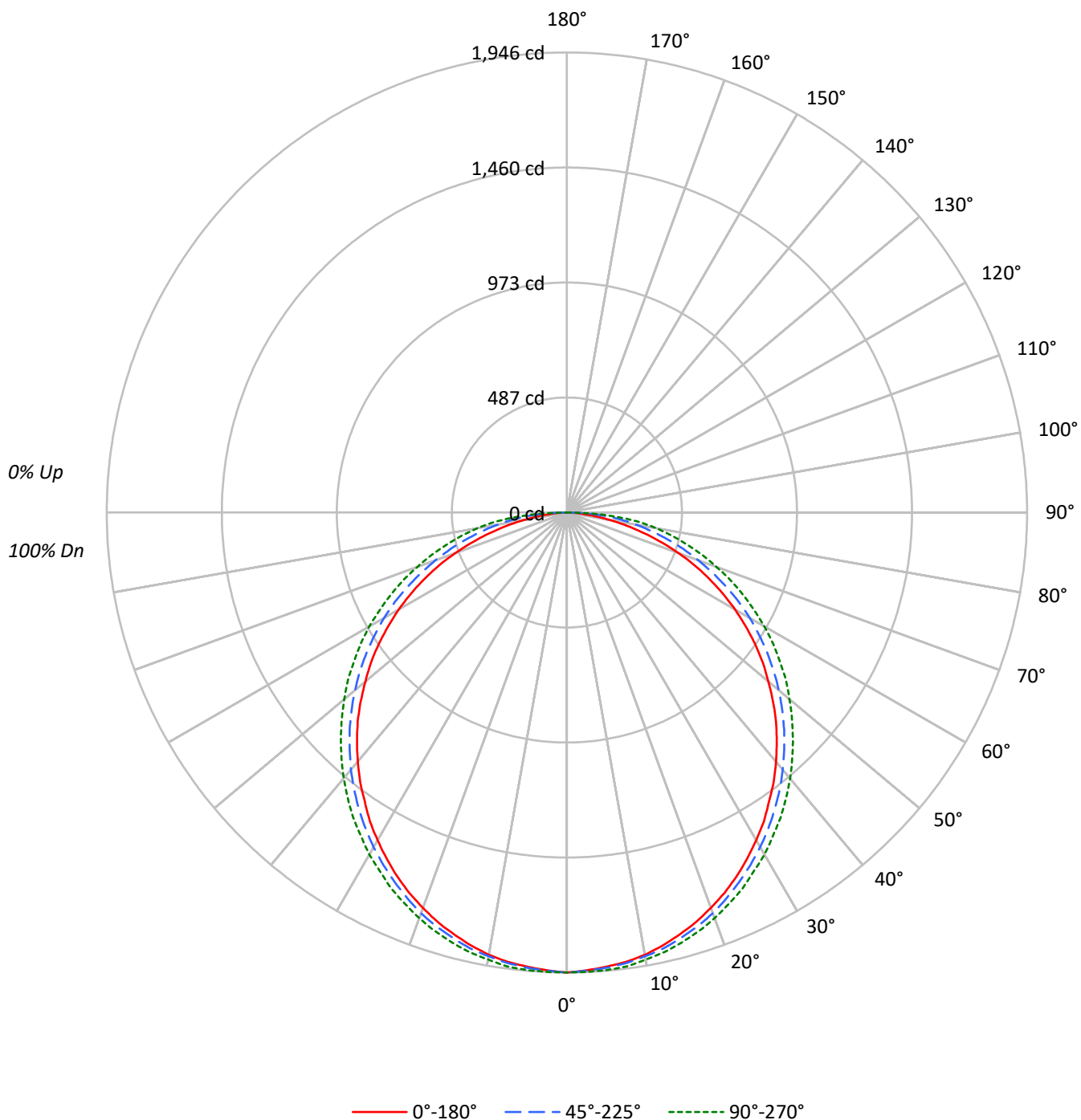
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5773.0 lumens
Efficiency: N/A
Efficacy: 146.5 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°	2981	2981	2981
5°	2965	2972	2987
10°	2955	2965	2987
15°	2929	2954	2985
20°	2901	2940	2977
25°	2870	2913	2968
30°	2831	2891	2956
35°	2787	2865	2946
40°	2751	2840	2936
45°	2710	2814	2928
50°	2650	2787	2928
55°	2594	2761	2935
60°	2516	2736	2956
65°	2409	2693	2977
70°	2254	2647	3012
75°	2004	2610	3111
80°	1649	2621	3383
85°	1123	2921	3734

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 3734 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.2
10°-20°	527.3	9.1
20°-30°	797.4	13.8
30°-40°	962.2	16.7
40°-50°	1006.1	17.4
50°-60°	928.3	16.1
60°-70°	738.2	12.8
70°-80°	465.9	8.1
80°-90°	163.4	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°	1508.9	26.1
0°-40°	2471.2	42.8
0°-60°	4405.6	76.3
0°-90°	5773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1928	1943	1933	1938	1943	183
15°	1847	1868	1863	1877	1882	521
25°	1698	1724	1724	1746	1756	782
35°	1491	1523	1532	1563	1575	934
45°	1251	1278	1299	1337	1352	963
55°	972	1000	1034	1083	1099	868
65°	665	695	743	805	821	657
75°	339	377	441	506	526	359
85°	64	106	166	206	212	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.1	1946.1	1946.1	1946.1	1946.1
2.5°	1938.1	1950.9	1939.7	1946.1	1944.5
5°	1928.5	1942.9	1933.3	1938.1	1942.9
7.5°	1917.3	1933.3	1922.1	1930.1	1936.5
10°	1899.8	1915.7	1906.2	1915.7	1920.5
12.5°	1875.8	1895.0	1888.6	1899.8	1904.6
15°	1847.0	1867.8	1863.0	1877.4	1882.2
17.5°	1816.7	1839.0	1835.9	1851.8	1856.6
20°	1779.9	1805.5	1803.9	1819.9	1826.3
22.5°	1741.6	1767.1	1765.5	1783.1	1791.1
25°	1698.4	1724.0	1724.0	1746.4	1756.0
27.5°	1650.5	1679.3	1680.9	1703.2	1711.2
30°	1601.0	1629.7	1634.5	1658.5	1671.3
32.5°	1549.8	1577.0	1585.0	1612.2	1621.7
35°	1490.7	1522.7	1532.3	1562.6	1575.4
37.5°	1436.4	1465.2	1477.9	1509.9	1522.7
40°	1375.7	1406.0	1420.4	1455.6	1468.4
42.5°	1313.4	1343.7	1359.7	1398.1	1410.8
45°	1251.1	1278.2	1299.0	1337.3	1351.7
47.5°	1182.4	1212.7	1235.1	1276.6	1291.0
50°	1112.1	1144.0	1169.6	1214.3	1228.7
52.5°	1044.9	1073.7	1102.5	1152.0	1168.0
55°	971.5	1000.2	1033.8	1083.3	1099.3
57.5°	896.4	925.1	963.5	1016.2	1033.8
60°	821.3	850.0	893.2	947.5	965.1
62.5°	743.0	771.7	819.7	875.6	891.6
65°	664.7	695.0	743.0	805.3	821.3
67.5°	584.8	615.1	666.3	731.8	749.4
70°	503.3	536.9	591.2	656.7	672.7
72.5°	418.6	457.0	517.7	581.6	600.8
75°	338.7	377.1	441.0	506.5	525.7
77.5°	260.4	303.6	367.5	436.2	457.0
80°	186.9	230.1	297.2	364.3	383.5
82.5°	119.8	164.6	231.7	295.6	311.6
85°	63.9	105.5	166.2	206.1	212.5
87.5°	20.8	54.3	75.1	99.1	100.7
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	15.35	17.02	15.72	17.34	17.65	16.07	17.74	16.44	18.06	18.37
	3H	17.14	18.66	17.51	18.98	19.34	18.24	19.76	18.62	20.08	20.44
	4H	17.77	19.20	18.17	19.55	19.92	19.17	20.61	19.57	20.95	21.33
	6H	18.19	19.52	18.60	19.89	20.28	20.03	21.36	20.44	21.73	22.12
	8H	18.30	19.58	18.73	19.97	20.36	20.41	21.68	20.83	22.07	22.47
	12H	18.36	19.58	18.79	19.97	20.39	20.72	21.94	21.15	22.32	22.75
4H	2H	16.12	17.55	16.51	17.90	18.27	16.68	18.11	17.07	18.46	18.83
	3H	18.14	19.35	18.55	19.74	20.14	19.09	20.30	19.50	20.69	21.09
	4H	18.90	20.00	19.33	20.41	20.85	20.19	21.29	20.62	21.70	22.14
	6H	19.46	20.42	19.91	20.86	21.31	21.23	22.20	21.68	22.64	23.09
	8H	19.61	20.52	20.07	20.96	21.42	21.70	22.60	22.16	23.04	23.51
	12H	19.71	20.53	20.19	21.00	21.47	22.09	22.91	22.57	23.38	23.85
8H	4H	19.39	20.29	19.85	20.73	21.20	20.51	21.41	20.97	21.85	22.32
	6H	20.10	20.85	20.59	21.34	21.81	21.73	22.48	22.22	22.97	23.44
	8H	20.34	21.02	20.85	21.52	22.01	22.32	23.00	22.83	23.51	23.99
	12H	20.51	21.11	21.02	21.60	22.16	22.87	23.47	23.37	23.96	24.52
12H	4H	19.49	20.31	19.97	20.78	21.25	20.54	21.36	21.02	21.83	22.30
	6H	20.26	20.94	20.76	21.44	21.93	21.79	22.47	22.30	22.98	23.46
	8H	20.58	21.19	21.09	21.67	22.23	22.47	23.07	22.97	23.56	24.12