

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: P1588394

Luminaire Tested: 24CZSP-57HE-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588394
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-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 80CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

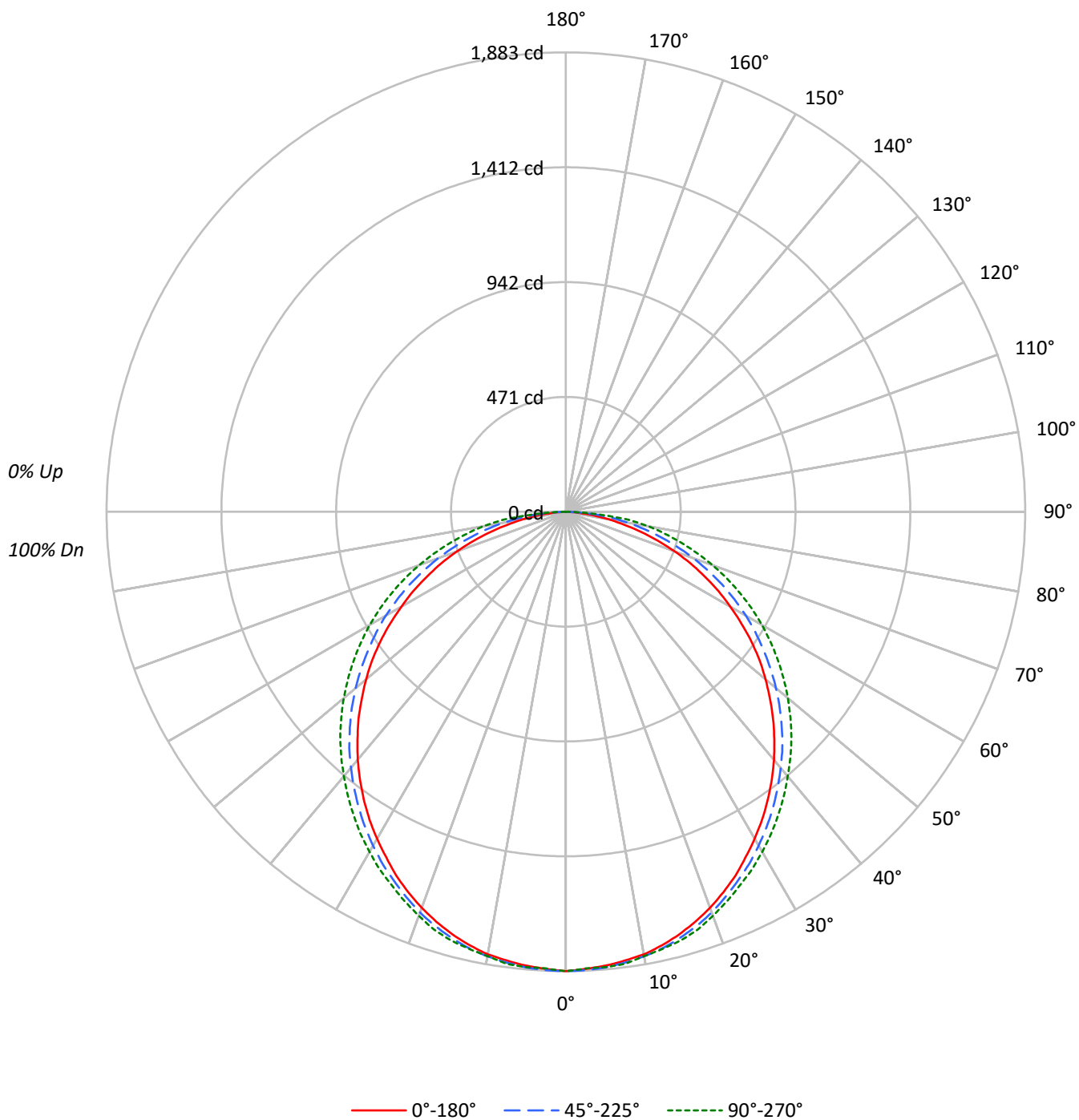
Lumens per Lamp: N/A
Luminaire Lumens: 5498.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	2884	2884	2884
5°	2871	2882	2881
10°	2865	2878	2876
15°	2845	2867	2885
20°	2816	2849	2873
25°	2781	2820	2854
30°	2737	2795	2846
35°	2698	2768	2838
40°	2653	2740	2829
45°	2603	2713	2833
50°	2547	2679	2831
55°	2480	2642	2835
60°	2387	2613	2842
65°	2278	2562	2851
70°	2123	2491	2863
75°	1892	2391	2891
80°	1564	2277	3032
85°	1018	2056	2650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3128 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.2
10°-20°	510.0	9.3
20°-30°	769.1	14.0
30°-40°	926.4	16.8
40°-50°	967.5	17.6
50°-60°	888.5	16.2
60°-70°	699.8	12.7
70°-80°	429.3	7.8
80°-90°	129.2	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°	1457.2	26.5
0°-40°	2383.6	43.4
0°-60°	4239.6	77.1
0°-90°	5498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1883	1883	1883	1883	1883	
5°	1868	1870	1875	1881	1874	177
15°	1794	1798	1808	1819	1819	506
25°	1646	1649	1668	1689	1689	757
35°	1443	1450	1480	1510	1518	902
45°	1202	1215	1252	1296	1308	926
55°	929	946	989	1045	1062	829
65°	628	650	707	766	787	622
75°	320	345	404	468	489	339
85°	58	80	117	148	151	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1883.2	1883.2	1883.2	1883.2	1883.2
2.5°	1876.0	1879.6	1880.8	1882.0	1873.6
5°	1867.5	1869.9	1874.8	1880.8	1873.6
7.5°	1855.5	1857.9	1863.9	1872.4	1868.7
10°	1842.2	1843.4	1850.6	1856.7	1849.4
12.5°	1820.5	1824.1	1832.5	1837.4	1835.0
15°	1793.9	1797.6	1808.4	1819.3	1819.3
17.5°	1762.6	1767.4	1780.7	1795.1	1796.3
20°	1727.6	1731.2	1748.1	1762.6	1762.6
22.5°	1687.8	1692.6	1709.5	1725.2	1727.6
25°	1645.5	1649.2	1668.5	1689.0	1689.0
27.5°	1596.1	1603.3	1627.5	1648.0	1652.8
30°	1547.8	1553.9	1580.4	1605.7	1609.4
32.5°	1497.2	1504.4	1532.1	1559.9	1565.9
35°	1442.9	1450.1	1480.3	1510.4	1517.7
37.5°	1386.2	1394.6	1426.0	1461.0	1468.2
40°	1327.1	1336.7	1370.5	1407.9	1415.1
42.5°	1264.3	1277.6	1313.8	1352.4	1363.2
45°	1201.6	1214.9	1252.3	1295.7	1307.8
47.5°	1135.2	1150.9	1189.5	1235.4	1248.6
50°	1068.9	1084.6	1124.4	1173.8	1188.3
52.5°	1001.3	1017.0	1058.0	1109.9	1125.6
55°	928.9	945.8	989.3	1044.8	1061.6
57.5°	854.1	875.9	921.7	978.4	995.3
60°	779.3	801.1	852.9	908.4	927.7
62.5°	705.8	726.3	779.3	838.5	859.0
65°	628.5	650.3	707.0	766.1	786.6
67.5°	552.5	574.3	631.0	692.5	714.2
70°	474.1	498.2	556.2	617.7	639.4
72.5°	395.7	421.0	480.2	542.9	563.4
75°	319.7	345.0	404.1	468.1	488.6
77.5°	244.9	272.6	330.6	395.7	415.0
80°	177.3	203.9	258.2	322.1	343.8
82.5°	113.4	136.3	190.6	250.9	266.6
85°	57.9	79.6	117.0	148.4	150.8
87.5°	18.1	25.3	38.6	57.9	59.1
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	16.82	15.52	17.14	17.45	15.99	17.65	16.35	17.97	18.28
	3H	16.91	18.42	17.29	18.75	19.11	18.11	19.61	18.48	19.94	20.30
	4H	17.53	18.96	17.93	19.30	19.68	18.99	20.42	19.39	20.76	21.14
	6H	17.94	19.26	18.35	19.63	20.02	19.78	21.10	20.19	21.46	21.85
	8H	18.05	19.31	18.47	19.70	20.10	20.10	21.36	20.52	21.75	22.14
	12H	18.10	19.31	18.53	19.69	20.12	20.31	21.52	20.74	21.90	22.33
4H	2H	15.93	17.35	16.33	17.70	18.07	16.58	18.00	16.97	18.35	18.72
	3H	17.91	19.11	18.32	19.50	19.90	18.93	20.13	19.34	20.53	20.93
	4H	18.64	19.73	19.07	20.14	20.58	19.98	21.07	20.41	21.48	21.92
	6H	19.17	20.13	19.63	20.56	21.02	20.94	21.89	21.39	22.33	22.78
	8H	19.32	20.21	19.78	20.65	21.12	21.33	22.23	21.79	22.67	23.13
	12H	19.40	20.21	19.88	20.68	21.15	21.61	22.41	22.09	22.89	23.36
8H	4H	19.10	20.00	19.56	20.44	20.90	20.27	21.16	20.73	21.61	22.07
	6H	19.76	20.51	20.26	21.00	21.47	21.38	22.13	21.88	22.62	23.09
	8H	19.98	20.64	20.48	21.15	21.63	21.90	22.56	22.40	23.07	23.55
	12H	20.11	20.71	20.62	21.20	21.75	22.28	22.87	22.79	23.36	23.92
12H	4H	19.19	20.00	19.67	20.47	20.94	20.30	21.10	20.78	21.57	22.04
	6H	19.90	20.57	20.40	21.07	21.56	21.43	22.10	21.94	22.61	23.09
	8H	20.17	20.77	20.68	21.26	21.81	22.01	22.60	22.51	23.09	23.65