

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: P1588718

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588718
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-57-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

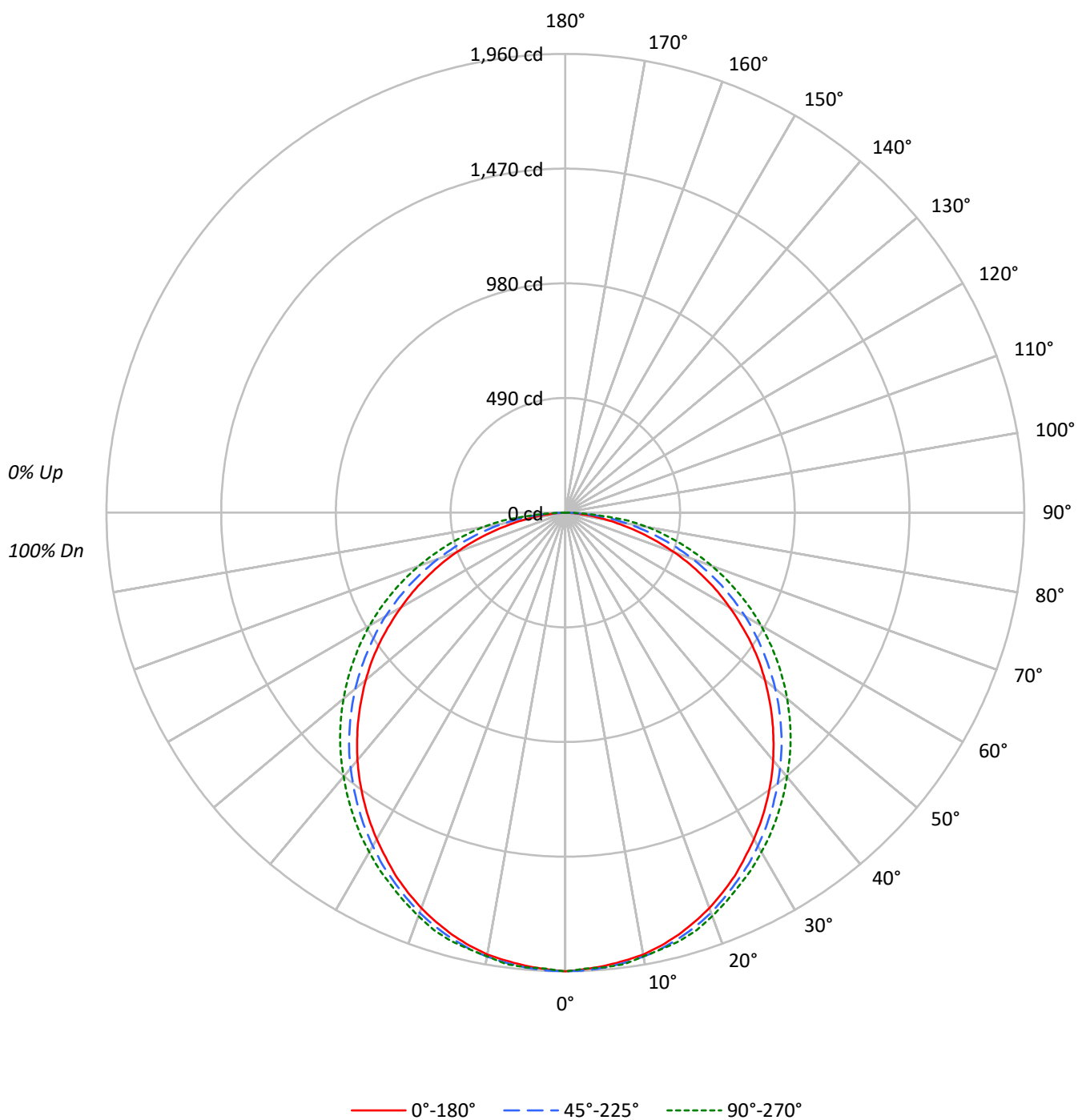
Lumens per Lamp: N/A
Luminaire Lumens: 5722.0 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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°	3002	3002	3002
5°	2988	3000	2998
10°	2982	2995	2994
15°	2960	2984	3002
20°	2931	2965	2990
25°	2894	2934	2971
30°	2849	2909	2962
35°	2808	2881	2953
40°	2761	2852	2945
45°	2709	2823	2948
50°	2651	2788	2947
55°	2582	2749	2950
60°	2485	2719	2958
65°	2371	2667	2967
70°	2210	2592	2980
75°	1969	2489	3009
80°	1628	2370	3156
85°	1060	2140	2757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3256 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	3.2
10°-20°	530.8	9.3
20°-30°	800.5	14.0
30°-40°	964.1	16.8
40°-50°	1006.9	17.6
50°-60°	924.7	16.2
60°-70°	728.3	12.7
70°-80°	446.8	7.8
80°-90°	134.5	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°	1516.6	26.5
0°-40°	2480.7	43.4
0°-60°	4412.4	77.1
0°-90°	5722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1944	1946	1951	1957	1950	185
15°	1867	1871	1882	1893	1893	526
25°	1713	1716	1736	1758	1758	788
35°	1502	1509	1541	1572	1580	939
45°	1250	1264	1303	1348	1361	964
55°	967	984	1030	1087	1105	863
65°	654	677	736	797	819	647
75°	333	359	421	487	508	353
85°	60	83	122	154	157	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	1952.4	1956.2	1957.4	1958.7	1949.9
5°	1943.6	1946.1	1951.1	1957.4	1949.9
7.5°	1931.1	1933.6	1939.8	1948.6	1944.9
10°	1917.2	1918.5	1926.0	1932.3	1924.8
12.5°	1894.6	1898.4	1907.2	1912.2	1909.7
15°	1867.0	1870.8	1882.1	1893.4	1893.4
17.5°	1834.4	1839.4	1853.2	1868.3	1869.5
20°	1798.0	1801.7	1819.3	1834.4	1834.4
22.5°	1756.5	1761.6	1779.1	1795.5	1798.0
25°	1712.6	1716.4	1736.4	1757.8	1757.8
27.5°	1661.1	1668.6	1693.8	1715.1	1720.1
30°	1610.9	1617.2	1644.8	1671.2	1674.9
32.5°	1558.2	1565.7	1594.6	1623.4	1629.7
35°	1501.7	1509.2	1540.6	1572.0	1579.5
37.5°	1442.6	1451.4	1484.1	1520.5	1528.0
40°	1381.1	1391.2	1426.3	1465.2	1472.8
42.5°	1315.8	1329.6	1367.3	1407.5	1418.8
45°	1250.5	1264.4	1303.3	1348.5	1361.0
47.5°	1181.5	1197.8	1238.0	1285.7	1299.5
50°	1112.4	1128.8	1170.2	1221.7	1236.7
52.5°	1042.1	1058.4	1101.1	1155.1	1171.4
55°	966.8	984.4	1029.6	1087.3	1104.9
57.5°	888.9	911.5	959.3	1018.3	1035.8
60°	811.1	833.7	887.7	945.4	965.5
62.5°	734.5	755.9	811.1	872.6	894.0
65°	654.1	676.7	735.8	797.3	818.6
67.5°	575.0	597.6	656.7	720.7	743.3
70°	493.4	518.5	578.8	642.8	665.4
72.5°	411.8	438.2	499.7	565.0	586.3
75°	332.7	359.1	420.6	487.2	508.5
77.5°	254.9	283.8	344.0	411.8	431.9
80°	184.6	212.2	268.7	335.2	357.8
82.5°	118.0	141.9	198.4	261.2	277.5
85°	60.3	82.9	121.8	154.4	156.9
87.5°	18.8	26.4	40.2	60.3	61.5
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	15.30	16.96	15.66	17.27	17.59	16.13	17.79	16.49	18.10	18.42
	3H	17.05	18.56	17.43	18.89	19.25	18.24	19.75	18.62	20.08	20.44
	4H	17.67	19.09	18.07	19.44	19.82	19.13	20.56	19.53	20.90	21.28
	6H	18.08	19.40	18.49	19.77	20.16	19.91	21.23	20.32	21.60	21.99
	8H	18.19	19.45	18.61	19.84	20.24	20.23	21.50	20.66	21.89	22.28
	12H	18.24	19.45	18.67	19.83	20.26	20.45	21.66	20.87	22.04	22.47
4H	2H	16.07	17.49	16.47	17.84	18.21	16.72	18.14	17.11	18.49	18.86
	3H	18.05	19.24	18.45	19.64	20.04	19.07	20.27	19.48	20.66	21.06
	4H	18.78	19.87	19.21	20.28	20.72	20.12	21.21	20.55	21.62	22.06
	6H	19.31	20.26	19.76	20.70	21.16	21.07	22.03	21.53	22.47	22.92
	8H	19.46	20.35	19.92	20.79	21.26	21.47	22.36	21.93	22.81	23.27
	12H	19.54	20.35	20.02	20.82	21.29	21.75	22.55	22.23	23.03	23.49
8H	4H	19.24	20.13	19.70	20.58	21.04	20.41	21.30	20.87	21.75	22.21
	6H	19.90	20.65	20.39	21.13	21.61	21.52	22.27	22.02	22.75	23.23
	8H	20.11	20.78	20.62	21.29	21.77	22.04	22.70	22.54	23.21	23.69
	12H	20.25	20.84	20.76	21.33	21.89	22.42	23.01	22.93	23.50	24.06
12H	4H	19.33	20.13	19.81	20.61	21.08	20.44	21.24	20.91	21.71	22.18
	6H	20.04	20.70	20.54	21.21	21.69	21.57	22.24	22.08	22.74	23.23
	8H	20.31	20.91	20.82	21.39	21.95	22.15	22.74	22.65	23.23	23.79