

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: P1588776

Luminaire Tested: 24CZSP-A-62-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588776
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-62-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5500 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

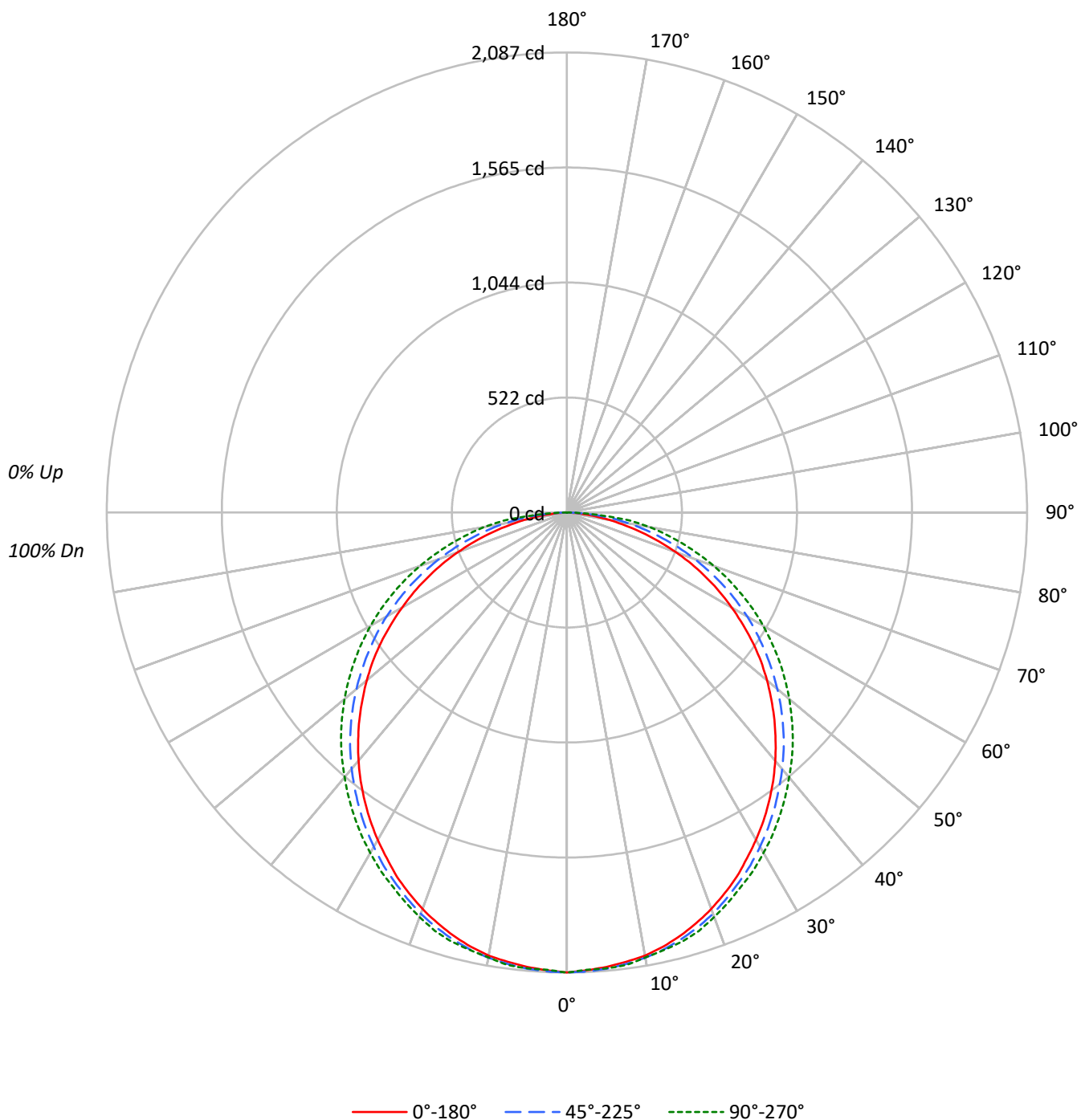
Lumens per Lamp: N/A
Luminaire Lumens: 6092.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 44.5
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°	3196	3196	3196
5°	3182	3194	3192
10°	3175	3189	3187
15°	3152	3177	3196
20°	3120	3157	3183
25°	3081	3124	3163
30°	3033	3097	3154
35°	2989	3067	3144
40°	2940	3036	3135
45°	2884	3006	3139
50°	2822	2969	3137
55°	2749	2927	3141
60°	2645	2895	3149
65°	2524	2839	3159
70°	2352	2759	3173
75°	2096	2650	3204
80°	1733	2523	3361
85°	1128	2279	2937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3466 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	3.2
10°-20°	565.1	9.3
20°-30°	852.2	14.0
30°-40°	1026.5	16.8
40°-50°	1072.0	17.6
50°-60°	984.5	16.2
60°-70°	775.4	12.7
70°-80°	475.7	7.8
80°-90°	143.2	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°	1614.7	26.5
0°-40°	2641.1	43.4
0°-60°	4697.7	77.1
0°-90°	6092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2087	2087	2087	2087	2087	
5°	2069	2072	2077	2084	2076	197
15°	1988	1992	2004	2016	2016	561
25°	1823	1827	1849	1872	1872	839
35°	1599	1607	1640	1674	1682	1000
45°	1331	1346	1388	1436	1449	1027
55°	1029	1048	1096	1158	1176	919
65°	696	720	783	849	872	689
75°	354	382	448	519	541	376
85°	64	88	130	164	167	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.7	2086.7	2086.7	2086.7	2086.7
2.5°	2078.7	2082.7	2084.0	2085.3	2076.0
5°	2069.3	2072.0	2077.3	2084.0	2076.0
7.5°	2055.9	2058.6	2065.3	2074.6	2070.6
10°	2041.2	2042.6	2050.6	2057.3	2049.2
12.5°	2017.2	2021.2	2030.5	2035.9	2033.2
15°	1987.8	1991.8	2003.8	2015.8	2015.8
17.5°	1953.0	1958.3	1973.0	1989.1	1990.4
20°	1914.2	1918.2	1937.0	1953.0	1953.0
22.5°	1870.1	1875.5	1894.2	1911.6	1914.2
25°	1823.3	1827.3	1848.7	1871.5	1871.5
27.5°	1768.5	1776.5	1803.3	1826.0	1831.4
30°	1715.1	1721.7	1751.1	1779.2	1783.2
32.5°	1658.9	1666.9	1697.7	1728.4	1735.1
35°	1598.8	1606.8	1640.2	1673.6	1681.6
37.5°	1535.9	1545.3	1580.0	1618.8	1626.8
40°	1470.4	1481.1	1518.6	1560.0	1568.0
42.5°	1400.9	1415.6	1455.7	1498.5	1510.5
45°	1331.4	1346.1	1387.6	1435.7	1449.0
47.5°	1257.9	1275.3	1318.0	1368.8	1383.5
50°	1184.4	1201.7	1245.9	1300.7	1316.7
52.5°	1109.5	1126.9	1172.3	1229.8	1247.2
55°	1029.3	1048.0	1096.1	1157.6	1176.3
57.5°	946.4	970.5	1021.3	1084.1	1102.8
60°	863.5	887.6	945.1	1006.6	1028.0
62.5°	782.0	804.7	863.5	929.0	951.8
65°	696.4	720.5	783.3	848.8	871.6
67.5°	612.2	636.3	699.1	767.3	791.4
70°	525.3	552.1	616.2	684.4	708.5
72.5°	438.5	466.5	532.0	601.5	624.3
75°	354.2	382.3	447.8	518.7	541.4
77.5°	271.4	302.1	366.3	438.5	459.8
80°	196.5	225.9	286.1	356.9	381.0
82.5°	125.7	151.1	211.2	278.0	295.4
85°	64.2	88.2	129.7	164.4	167.1
87.5°	20.1	28.1	42.8	64.2	65.5
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	15.51	17.18	15.88	17.49	17.81	16.34	18.01	16.71	18.32	18.64
	3H	17.27	18.78	17.65	19.10	19.46	18.46	19.97	18.84	20.30	20.65
	4H	17.89	19.31	18.29	19.66	20.03	19.35	20.77	19.75	21.12	21.49
	6H	18.30	19.62	18.71	19.98	20.37	20.13	21.45	20.54	21.82	22.21
	8H	18.41	19.67	18.83	20.06	20.46	20.45	21.71	20.88	22.10	22.50
	12H	18.46	19.67	18.89	20.05	20.48	20.66	21.87	21.09	22.25	22.68
4H	2H	16.29	17.71	16.68	18.06	18.43	16.93	18.36	17.33	18.70	19.08
	3H	18.26	19.46	18.67	19.86	20.26	19.29	20.49	19.70	20.88	21.28
	4H	19.00	20.09	19.43	20.50	20.93	20.34	21.43	20.77	21.84	22.27
	6H	19.53	20.48	19.98	20.92	21.37	21.29	22.24	21.75	22.68	23.14
	8H	19.68	20.57	20.13	21.01	21.47	21.69	22.58	22.15	23.02	23.49
	12H	19.76	20.56	20.24	21.04	21.51	21.97	22.77	22.45	23.24	23.71
8H	4H	19.46	20.35	19.92	20.79	21.26	20.63	21.52	21.09	21.96	22.43
	6H	20.12	20.87	20.61	21.35	21.83	21.74	22.49	22.23	22.97	23.45
	8H	20.33	21.00	20.84	21.50	21.99	22.25	22.92	22.76	23.43	23.91
	12H	20.47	21.06	20.98	21.55	22.11	22.64	23.23	23.14	23.72	24.28
12H	4H	19.55	20.35	20.03	20.83	21.30	20.65	21.46	21.13	21.93	22.40
	6H	20.25	20.92	20.76	21.43	21.91	21.79	22.46	22.30	22.96	23.45
	8H	20.53	21.12	21.04	21.61	22.17	22.37	22.96	22.87	23.45	24.01