

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: P1584462

Luminaire Tested: 14CZSP-70-L930-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-70-L930-S
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 6700 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

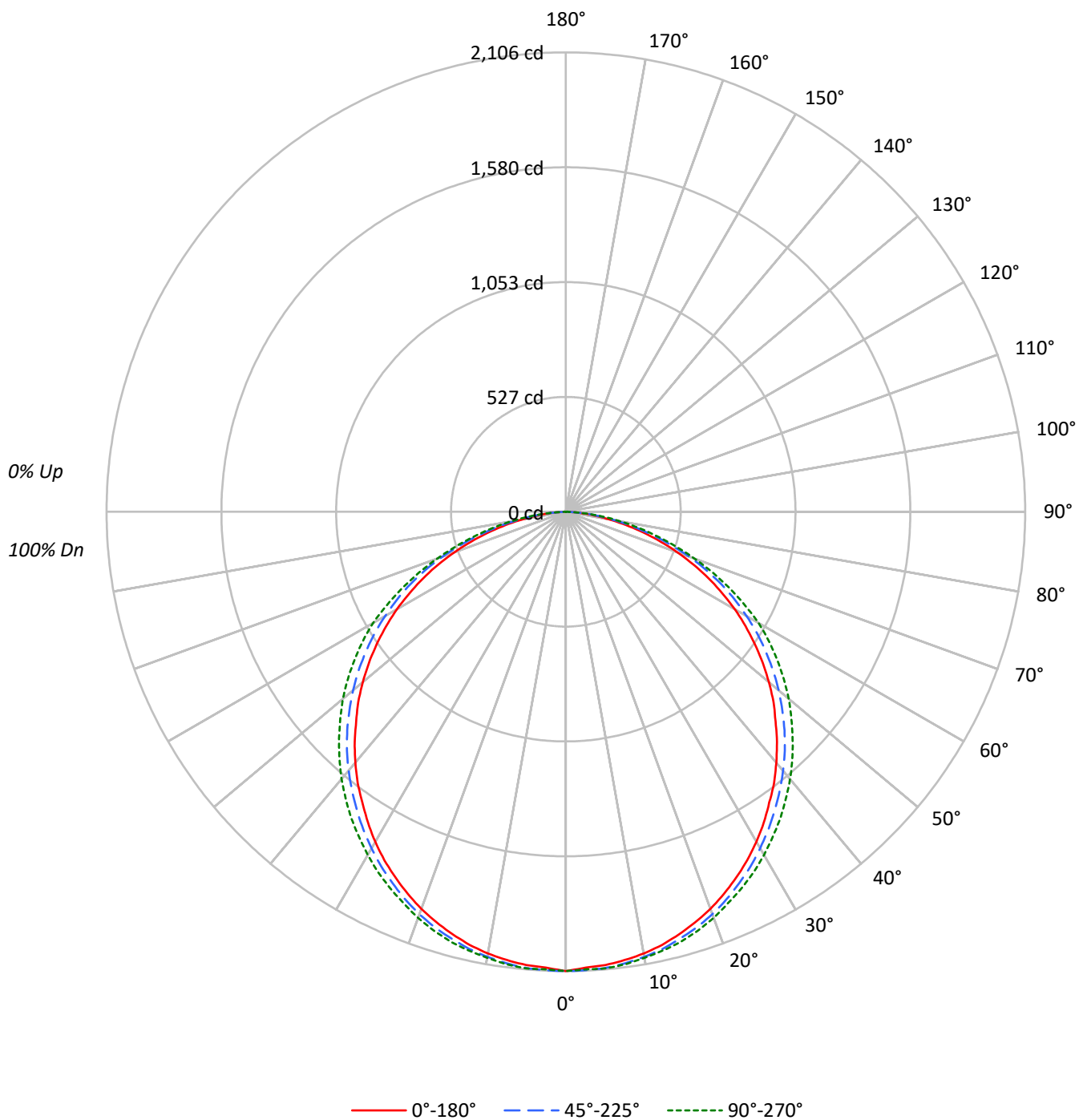
Lumens per Lamp: N/A
Luminaire Lumens: 6088.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
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	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7096	7096	7096
5°	7056	7102	7108
10°	7037	7089	7104
15°	6996	7068	7118
20°	6947	7040	7105
25°	6877	6986	7083
30°	6799	6932	7067
35°	6690	6871	7055
40°	6602	6815	7036
45°	6478	6755	7007
50°	6370	6675	6995
55°	6217	6580	6949
60°	6027	6449	6879
65°	5759	6273	6595
70°	5367	5924	6189
75°	4795	5343	5646
80°	3929	4504	4938
85°	2633	3290	3673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.3
10°-20°	571.8	9.4
20°-30°	865.8	14.2
30°-40°	1045.5	17.2
40°-50°	1092.6	17.9
50°-60°	1001.2	16.4
60°-70°	772.9	12.7
70°-80°	434.7	7.1
80°-90°	104.0	1.7
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°	1637.0	26.9
0°-40°	2682.5	44.1
0°-60°	4776.4	78.5
0°-90°	6088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6088.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2086	2101	2100	2101	2101	198
15°	2006	2022	2026	2034	2040	566
25°	1850	1866	1879	1889	1905	852
35°	1626	1647	1670	1693	1715	1019
45°	1359	1386	1418	1446	1470	1051
55°	1058	1086	1120	1155	1183	946
65°	722	754	787	818	827	714
75°	368	402	410	427	434	390
85°	68	78	85	93	95	87
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.8	2105.8	2105.8	2105.8	2105.8
2.5°	2091.5	2107.6	2104.1	2109.4	2099.6
5°	2086.1	2101.4	2099.6	2101.4	2101.4
7.5°	2072.7	2088.8	2087.9	2090.6	2092.4
10°	2056.6	2071.8	2071.8	2074.5	2076.3
12.5°	2034.2	2050.3	2052.1	2056.6	2060.1
15°	2005.5	2021.6	2026.1	2034.2	2040.4
17.5°	1973.2	1990.2	1997.4	2005.5	2013.5
20°	1937.4	1952.6	1963.4	1969.6	1981.3
22.5°	1895.3	1912.3	1923.9	1930.2	1942.8
25°	1849.6	1865.7	1879.1	1889.0	1905.1
27.5°	1801.2	1817.3	1833.4	1845.1	1863.9
30°	1747.4	1764.4	1781.5	1799.4	1816.4
32.5°	1689.2	1708.9	1727.7	1747.4	1766.2
35°	1626.4	1647.0	1670.3	1692.7	1715.1
37.5°	1568.2	1587.0	1611.2	1635.4	1657.8
40°	1501.0	1521.6	1549.4	1576.2	1599.5
42.5°	1432.9	1455.3	1485.7	1511.7	1536.8
45°	1359.4	1386.3	1417.6	1446.3	1470.5
47.5°	1291.3	1314.6	1345.9	1377.3	1402.4
50°	1215.1	1241.1	1273.4	1306.5	1334.3
52.5°	1138.1	1164.9	1198.1	1231.2	1259.9
55°	1058.3	1086.1	1120.1	1155.1	1182.9
57.5°	976.8	1006.3	1041.3	1076.2	1104.0
60°	894.3	923.9	957.0	995.6	1020.7
62.5°	808.3	841.4	872.8	908.6	923.9
65°	722.3	753.6	786.8	818.1	827.1
67.5°	634.4	666.7	696.3	716.9	728.5
70°	544.8	579.8	601.3	621.0	628.2
72.5°	456.1	491.1	503.6	522.4	529.6
75°	368.3	402.4	410.4	427.4	433.7
77.5°	283.2	314.5	317.2	336.9	342.3
80°	202.5	227.6	232.1	250.9	254.5
82.5°	129.9	147.9	154.1	170.3	175.6
85°	68.1	78.0	85.1	93.2	95.0
87.5°	22.4	27.8	23.3	24.2	22.4
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	18.52	20.17	18.89	20.48	20.80	19.06	20.71	19.43	21.02	21.34
	3H	20.30	21.79	20.67	22.12	22.48	20.92	22.41	21.29	22.74	23.10
	4H	20.92	22.33	21.32	22.68	23.05	21.59	22.99	21.98	23.34	23.72
	6H	21.33	22.64	21.74	23.00	23.39	22.06	23.37	22.47	23.73	24.12
	8H	21.43	22.68	21.86	23.07	23.47	22.21	23.46	22.63	23.84	24.24
	12H	21.48	22.68	21.91	23.06	23.49	22.29	23.49	22.72	23.87	24.30
4H	2H	19.24	20.65	19.64	21.00	21.37	19.67	21.07	20.06	21.42	21.80
	3H	21.24	22.42	21.65	22.82	23.22	21.74	22.92	22.15	23.32	23.72
	4H	22.00	23.07	22.43	23.48	23.91	22.53	23.60	22.97	24.02	24.45
	6H	22.52	23.46	22.98	23.90	24.35	23.14	24.07	23.59	24.51	24.97
	8H	22.66	23.54	23.12	23.98	24.44	23.33	24.20	23.79	24.64	25.11
	12H	22.74	23.53	23.22	24.00	24.47	23.45	24.23	23.93	24.71	25.18
8H	4H	22.33	23.21	22.79	23.65	24.11	22.81	23.68	23.27	24.13	24.59
	6H	22.97	23.70	23.47	24.19	24.66	23.52	24.25	24.02	24.74	25.21
	8H	23.17	23.82	23.68	24.33	24.82	23.78	24.43	24.29	24.94	25.42
	12H	23.30	23.88	23.81	24.37	24.93	23.96	24.54	24.47	25.03	25.59
12H	4H	22.37	23.16	22.85	23.63	24.10	22.83	23.62	23.31	24.09	24.56
	6H	23.03	23.68	23.54	24.19	24.67	23.56	24.21	24.07	24.72	25.20
	8H	23.28	23.86	23.79	24.35	24.91	23.87	24.44	24.37	24.93	25.49