

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: P1584758

Luminaire Tested: 14CZSP-A-70-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584758
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-A-70-L845-S
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

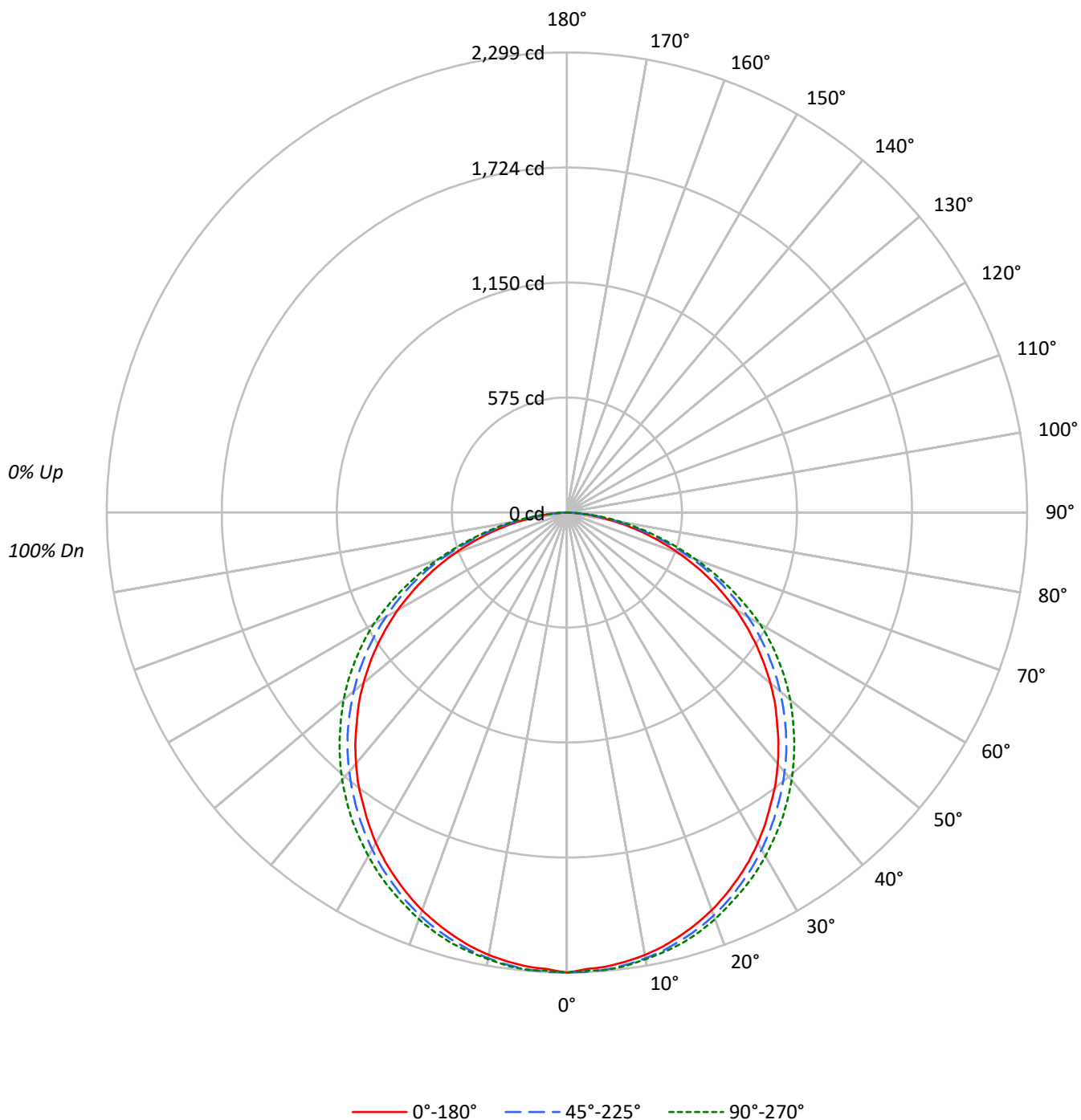
Lumens per Lamp: N/A
Luminaire Lumens: 6647.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	83	78	96	88	82	77	85	80	75		82	77	73		79
3	90	79	71	64	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	70	56	47	41	68	55	47	41	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46
8	60	46	38	32	59	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7747	7747	7747
5°	7704	7754	7760
10°	7683	7740	7756
15°	7638	7717	7772
20°	7585	7687	7757
25°	7508	7628	7733
30°	7423	7568	7716
35°	7305	7502	7703
40°	7209	7441	7682
45°	7073	7376	7651
50°	6955	7288	7637
55°	6788	7185	7587
60°	6580	7042	7510
65°	6288	6849	7200
70°	5861	6468	6756
75°	5235	5834	6165
80°	4290	4917	5393
85°	2876	3592	4009

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7651 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	3.3
10°-20°	624.3	9.4
20°-30°	945.3	14.2
30°-40°	1141.5	17.2
40°-50°	1193.0	17.9
50°-60°	1093.2	16.4
60°-70°	843.8	12.7
70°-80°	474.7	7.1
80°-90°	113.6	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°	1787.3	26.9
0°-40°	2928.8	44.1
0°-60°	5214.9	78.5
0°-90°	6647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6647.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2299	2299	2299	2299	2299	
5°	2278	2294	2292	2294	2294	216
15°	2190	2207	2212	2221	2228	618
25°	2019	2037	2052	2062	2080	931
35°	1776	1798	1824	1848	1873	1113
45°	1484	1514	1548	1579	1606	1147
55°	1156	1186	1223	1261	1292	1032
65°	789	823	859	893	903	779
75°	402	439	448	467	474	426
85°	74	85	93	102	104	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2299.2	2299.2	2299.2	2299.2	2299.2
2.5°	2283.5	2301.2	2297.2	2303.1	2292.4
5°	2277.7	2294.3	2292.4	2294.3	2294.3
7.5°	2263.0	2280.6	2279.6	2282.6	2284.5
10°	2245.4	2262.0	2262.0	2265.0	2266.9
12.5°	2220.9	2238.5	2240.5	2245.4	2249.3
15°	2189.6	2207.2	2212.1	2220.9	2227.8
17.5°	2154.4	2173.0	2180.8	2189.6	2198.4
20°	2115.3	2131.9	2143.6	2150.5	2163.2
22.5°	2069.3	2087.9	2100.6	2107.4	2121.1
25°	2019.4	2037.0	2051.7	2062.4	2080.0
27.5°	1966.6	1984.2	2001.8	2014.5	2035.0
30°	1907.8	1926.4	1945.0	1964.6	1983.2
32.5°	1844.3	1865.8	1886.3	1907.8	1928.4
35°	1775.8	1798.3	1823.7	1848.2	1872.6
37.5°	1712.2	1732.7	1759.1	1785.6	1810.0
40°	1638.8	1661.3	1691.6	1721.0	1746.4
42.5°	1564.4	1588.9	1622.2	1650.5	1677.9
45°	1484.2	1513.6	1547.8	1579.1	1605.5
47.5°	1409.9	1435.3	1469.5	1503.8	1531.2
50°	1326.7	1355.1	1390.3	1426.5	1456.8
52.5°	1242.5	1271.9	1308.1	1344.3	1375.6
55°	1155.5	1185.8	1223.0	1261.1	1291.5
57.5°	1066.4	1098.7	1136.9	1175.0	1205.4
60°	976.4	1008.7	1044.9	1087.0	1114.4
62.5°	882.5	918.7	952.9	992.1	1008.7
65°	788.6	822.8	859.0	893.3	903.0
67.5°	692.7	727.9	760.2	782.7	795.4
70°	594.9	633.0	656.5	678.0	685.8
72.5°	498.0	536.2	549.9	570.4	578.2
75°	402.1	439.3	448.1	466.7	473.5
77.5°	309.2	343.4	346.3	367.9	373.7
80°	221.1	248.5	253.4	273.9	277.9
82.5°	141.9	161.4	168.3	185.9	191.8
85°	74.4	85.1	92.9	101.8	103.7
87.5°	24.5	30.3	25.4	26.4	24.5
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	18.83	20.48	19.19	20.79	21.10	19.37	21.02	19.73	21.33	21.64
	3H	20.60	22.09	20.98	22.42	22.78	21.22	22.72	21.60	23.04	23.40
	4H	21.23	22.63	21.63	22.98	23.36	21.89	23.30	22.29	23.65	24.02
	6H	21.64	22.94	22.05	23.30	23.70	22.37	23.67	22.78	24.04	24.43
	8H	21.74	22.99	22.16	23.37	23.77	22.51	23.76	22.94	24.15	24.55
	12H	21.79	22.98	22.22	23.37	23.79	22.60	23.79	23.03	24.17	24.60
4H	2H	19.55	20.96	19.95	21.30	21.68	19.97	21.38	20.37	21.73	22.10
	3H	21.54	22.73	21.95	23.12	23.52	22.04	23.22	22.45	23.62	24.02
	4H	22.30	23.37	22.73	23.78	24.22	22.84	23.91	23.27	24.32	24.76
	6H	22.83	23.76	23.28	24.20	24.66	23.44	24.38	23.90	24.82	25.27
	8H	22.97	23.84	23.43	24.28	24.75	23.63	24.51	24.09	24.95	25.41
	12H	23.05	23.83	23.53	24.31	24.78	23.75	24.54	24.23	25.01	25.48
8H	4H	22.64	23.51	23.10	23.95	24.42	23.12	23.99	23.58	24.43	24.90
	6H	23.28	24.01	23.77	24.49	24.97	23.83	24.55	24.32	25.04	25.52
	8H	23.48	24.13	23.99	24.64	25.12	24.09	24.74	24.59	25.24	25.73
	12H	23.61	24.18	24.11	24.67	25.23	24.27	24.84	24.77	25.33	25.89
12H	4H	22.68	23.46	23.16	23.94	24.41	23.14	23.93	23.62	24.40	24.87
	6H	23.33	23.99	23.84	24.49	24.98	23.87	24.52	24.37	25.02	25.51
	8H	23.59	24.16	24.09	24.65	25.21	24.17	24.75	24.68	25.24	25.80