

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: P1584469

Luminaire Tested: 14CZSP-70-L945

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-724-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-70-L945
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 6700 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

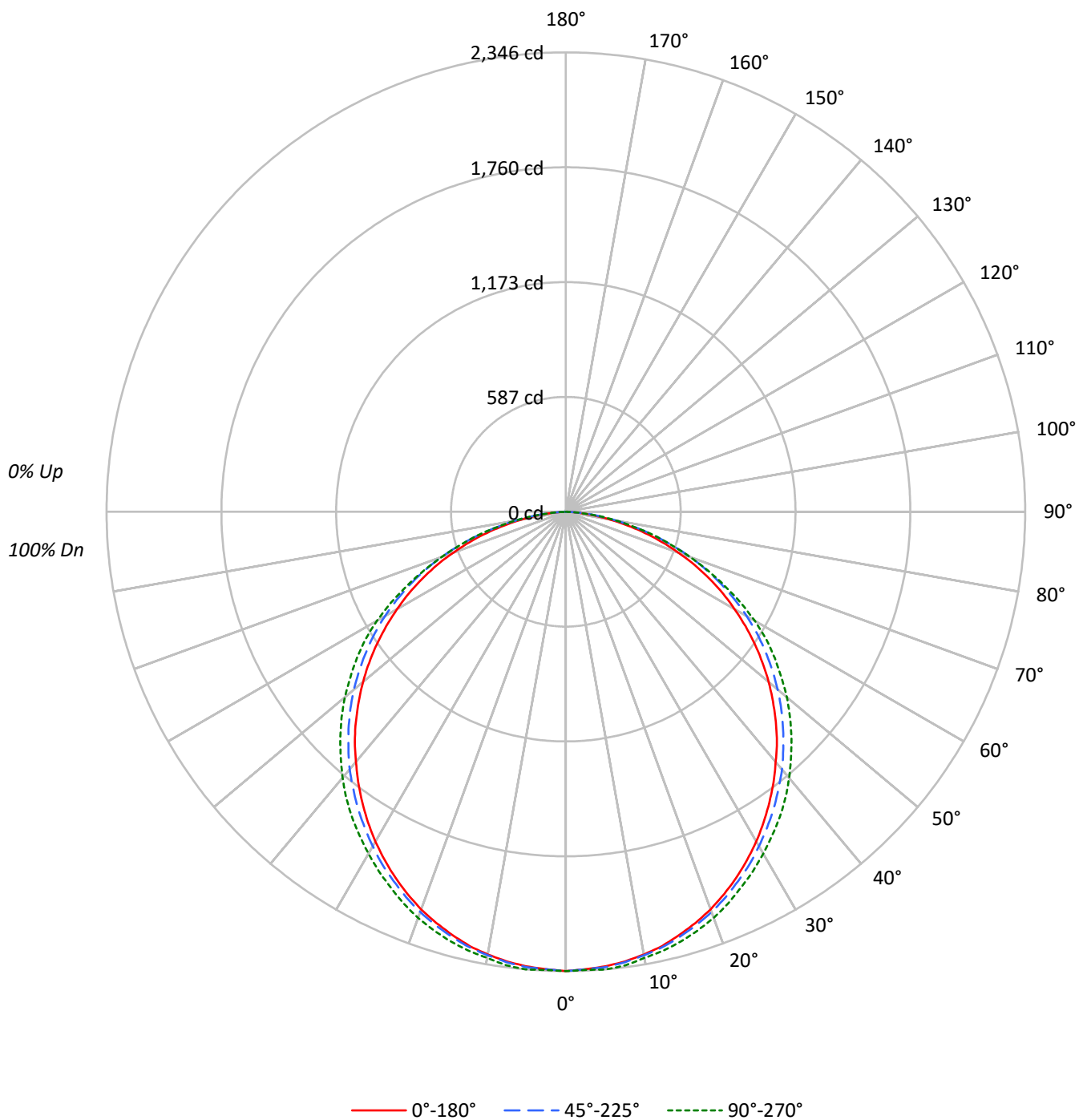
Lumens per Lamp: N/A
Luminaire Lumens: 6769.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	53		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	29		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°	7905	7905	7905
5°	7881	7894	7935
10°	7855	7869	7917
15°	7806	7841	7925
20°	7750	7800	7915
25°	7663	7737	7871
30°	7566	7675	7847
35°	7454	7611	7834
40°	7335	7556	7803
45°	7229	7478	7765
50°	7091	7406	7722
55°	6920	7309	7651
60°	6708	7195	7506
65°	6448	6992	7136
70°	6050	6643	6643
75°	5434	6036	6062
80°	4479	5101	5101
85°	3105	3723	3259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	3.3
10°-20°	636.4	9.4
20°-30°	963.2	14.2
30°-40°	1162.8	17.2
40°-50°	1214.8	17.9
50°-60°	1112.9	16.4
60°-70°	858.0	12.7
70°-80°	484.1	7.2
80°-90°	114.6	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°	1821.8	26.9
0°-40°	2984.6	44.1
0°-60°	5312.3	78.5
0°-90°	6769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6769.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2330	2346	2334	2338	2346	221
15°	2238	2252	2248	2266	2272	632
25°	2061	2079	2081	2109	2117	950
35°	1812	1836	1850	1890	1904	1134
45°	1517	1543	1569	1616	1630	1169
55°	1178	1208	1244	1290	1302	1052
65°	809	835	877	907	895	799
75°	417	450	464	476	466	442
85°	80	90	96	102	84	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2345.9	2345.9	2345.9	2345.9	2345.9
2.5°	2337.9	2353.9	2337.9	2345.9	2341.9
5°	2329.9	2345.9	2333.9	2337.9	2345.9
7.5°	2315.8	2331.9	2319.8	2325.8	2335.9
10°	2295.7	2311.8	2299.8	2309.8	2313.8
12.5°	2271.7	2285.7	2277.7	2289.7	2295.7
15°	2237.6	2251.6	2247.6	2265.6	2271.7
17.5°	2201.4	2217.5	2213.5	2235.5	2241.6
20°	2161.3	2175.3	2175.3	2195.4	2207.4
22.5°	2113.1	2129.2	2131.2	2153.3	2165.3
25°	2061.0	2079.0	2081.0	2109.1	2117.1
27.5°	2004.8	2022.8	2030.9	2061.0	2069.0
30°	1944.6	1962.6	1972.7	2006.8	2016.8
32.5°	1880.3	1902.4	1912.5	1950.6	1960.6
35°	1812.1	1836.2	1850.2	1890.4	1904.4
37.5°	1741.9	1766.0	1784.0	1826.2	1842.2
40°	1667.6	1693.7	1717.8	1759.9	1774.0
42.5°	1595.4	1621.5	1643.5	1687.7	1701.7
45°	1517.1	1543.2	1569.3	1615.5	1629.5
47.5°	1434.8	1462.9	1493.0	1535.2	1553.2
50°	1352.6	1380.7	1412.8	1456.9	1473.0
52.5°	1266.3	1296.4	1328.5	1374.6	1386.7
55°	1178.0	1208.1	1244.2	1290.4	1302.4
57.5°	1087.7	1119.8	1157.9	1202.1	1214.1
60°	995.4	1027.5	1067.6	1109.7	1113.8
62.5°	905.1	933.1	973.3	1013.4	1007.4
65°	808.7	834.8	877.0	907.1	895.0
67.5°	712.4	740.5	778.6	800.7	784.6
70°	614.1	644.2	674.3	690.3	674.3
72.5°	515.7	547.8	569.9	580.0	565.9
75°	417.4	449.5	463.6	475.6	465.6
77.5°	323.1	353.2	359.2	373.3	359.2
80°	230.8	258.9	262.9	276.9	262.9
82.5°	148.5	166.6	174.6	186.6	172.6
85°	80.3	90.3	96.3	102.3	84.3
87.5°	28.1	32.1	28.1	24.1	10.0
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	18.90	20.55	19.26	20.86	21.17	19.44	21.09	19.80	21.40	21.72
	3H	20.68	22.18	21.06	22.50	22.86	21.25	22.74	21.62	23.07	23.43
	4H	21.32	22.73	21.72	23.08	23.45	21.89	23.30	22.29	23.65	24.02
	6H	21.75	23.05	22.16	23.42	23.81	22.33	23.64	22.74	24.00	24.39
	8H	21.86	23.10	22.28	23.49	23.89	22.45	23.70	22.88	24.09	24.49
	12H	21.91	23.10	22.34	23.49	23.91	22.51	23.71	22.94	24.09	24.52
4H	2H	19.62	21.03	20.02	21.38	21.75	20.05	21.45	20.45	21.80	22.18
	3H	21.63	22.81	22.04	23.21	23.61	22.08	23.26	22.49	23.66	24.06
	4H	22.40	23.46	22.83	23.88	24.31	22.86	23.93	23.29	24.34	24.78
	6H	22.94	23.87	23.39	24.31	24.77	23.43	24.36	23.88	24.80	25.26
	8H	23.09	23.96	23.55	24.40	24.87	23.60	24.47	24.06	24.91	25.38
	12H	23.17	23.96	23.65	24.43	24.90	23.69	24.47	24.17	24.95	25.42
8H	4H	22.74	23.61	23.20	24.06	24.52	23.15	24.03	23.61	24.47	24.93
	6H	23.40	24.12	23.89	24.61	25.09	23.83	24.56	24.33	25.05	25.52
	8H	23.60	24.26	24.11	24.76	25.25	24.07	24.72	24.58	25.22	25.71
	12H	23.74	24.32	24.25	24.81	25.37	24.22	24.79	24.72	25.28	25.84
12H	4H	22.78	23.56	23.26	24.04	24.51	23.18	23.96	23.66	24.44	24.91
	6H	23.45	24.11	23.96	24.61	25.10	23.87	24.53	24.38	25.03	25.52
	8H	23.71	24.29	24.22	24.78	25.34	24.16	24.73	24.67	25.22	25.78