

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: P1584767

Luminaire Tested: 14CZSP-A-70-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584767
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-A-70-L940
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 6700 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

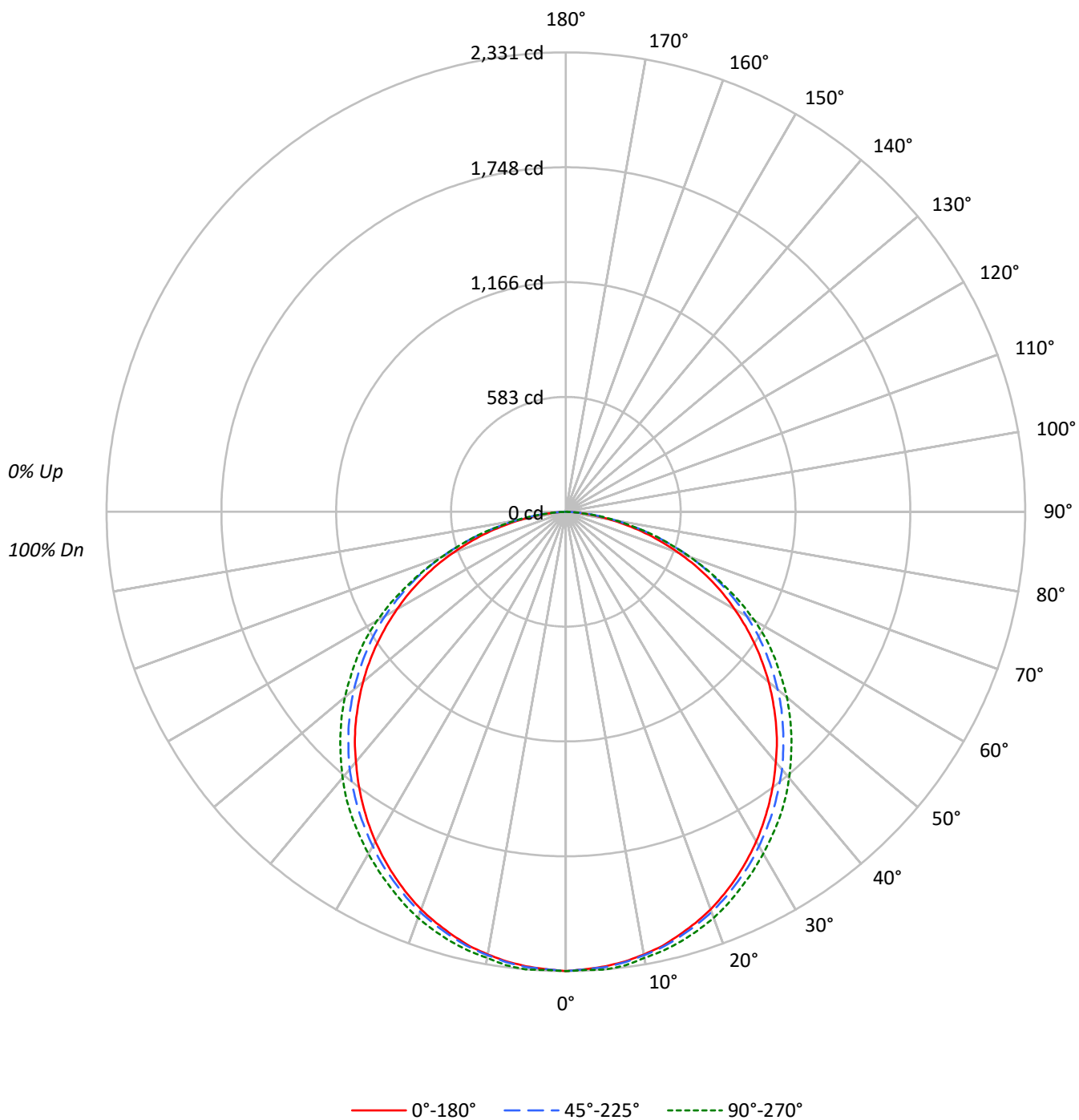
Lumens per Lamp: N/A
Luminaire Lumens: 6726.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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°	7854	7854	7854
5°	7831	7844	7884
10°	7805	7819	7867
15°	7756	7791	7874
20°	7701	7751	7865
25°	7614	7688	7821
30°	7518	7626	7797
35°	7407	7563	7784
40°	7289	7508	7754
45°	7184	7431	7716
50°	7045	7359	7672
55°	6876	7263	7602
60°	6665	7149	7458
65°	6407	6948	7090
70°	6012	6601	6601
75°	5400	5997	6023
80°	4449	5068	5068
85°	3085	3700	3236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7716 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.8	3.3
10°-20°	632.4	9.4
20°-30°	957.1	14.2
30°-40°	1155.4	17.2
40°-50°	1207.1	17.9
50°-60°	1105.8	16.4
60°-70°	852.6	12.7
70°-80°	481.0	7.2
80°-90°	113.8	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°	1810.2	26.9
0°-40°	2965.7	44.1
0°-60°	5278.6	78.5
0°-90°	6726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2331	2331	2331	2331	2331	
5°	2315	2331	2319	2323	2331	220
15°	2223	2237	2233	2251	2257	627
25°	2048	2066	2068	2096	2104	944
35°	1801	1824	1838	1878	1892	1127
45°	1508	1533	1559	1605	1619	1162
55°	1170	1200	1236	1282	1294	1046
65°	804	830	871	901	889	794
75°	415	447	461	473	463	440
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°	2331.0	2331.0	2331.0	2331.0	2331.0
2.5°	2323.0	2339.0	2323.0	2331.0	2327.0
5°	2315.1	2331.0	2319.1	2323.0	2331.0
7.5°	2301.1	2317.1	2305.1	2311.1	2321.0
10°	2281.2	2297.1	2285.2	2295.1	2299.1
12.5°	2257.2	2271.2	2263.2	2275.2	2281.2
15°	2223.3	2237.3	2233.3	2251.3	2257.2
17.5°	2187.4	2203.4	2199.4	2221.3	2227.3
20°	2147.6	2161.5	2161.5	2181.5	2193.4
22.5°	2099.7	2115.7	2117.7	2139.6	2151.6
25°	2047.9	2065.8	2067.8	2095.7	2103.7
27.5°	1992.0	2010.0	2018.0	2047.9	2055.8
30°	1932.2	1950.2	1960.1	1994.0	2004.0
32.5°	1868.4	1890.3	1900.3	1938.2	1948.2
35°	1800.6	1824.5	1838.5	1878.4	1892.3
37.5°	1730.8	1754.7	1772.7	1814.6	1830.5
40°	1657.0	1683.0	1706.9	1748.8	1762.7
42.5°	1585.2	1611.2	1633.1	1677.0	1690.9
45°	1507.5	1533.4	1559.3	1605.2	1619.1
47.5°	1425.7	1453.6	1483.6	1525.4	1543.4
50°	1344.0	1371.9	1403.8	1447.7	1463.6
52.5°	1258.2	1288.1	1320.0	1365.9	1377.9
55°	1170.5	1200.4	1236.3	1282.2	1294.1
57.5°	1080.8	1112.7	1150.6	1194.4	1206.4
60°	989.0	1020.9	1060.8	1102.7	1106.7
62.5°	899.3	927.2	967.1	1007.0	1001.0
65°	803.6	829.5	871.4	901.3	889.3
67.5°	707.9	735.8	773.7	795.6	779.7
70°	610.2	640.1	670.0	685.9	670.0
72.5°	512.5	544.4	566.3	576.3	562.3
75°	414.8	446.7	460.6	472.6	462.6
77.5°	321.0	350.9	356.9	370.9	356.9
80°	229.3	257.2	261.2	275.2	261.2
82.5°	147.6	165.5	173.5	185.4	171.5
85°	79.8	89.7	95.7	101.7	83.7
87.5°	27.9	31.9	27.9	23.9	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	18.87	20.52	19.24	20.84	21.15	19.42	21.07	19.78	21.38	21.70
	3H	20.66	22.15	21.04	22.48	22.84	21.22	22.72	21.60	23.04	23.40
	4H	21.30	22.71	21.70	23.05	23.43	21.87	23.28	22.27	23.62	24.00
	6H	21.72	23.03	22.14	23.39	23.78	22.31	23.61	22.72	23.98	24.37
	8H	21.83	23.08	22.26	23.47	23.87	22.43	23.68	22.86	24.07	24.47
	12H	21.89	23.08	22.32	23.46	23.89	22.49	23.68	22.92	24.07	24.49
4H	2H	19.60	21.01	20.00	21.35	21.73	20.03	21.43	20.42	21.78	22.15
	3H	21.61	22.79	22.02	23.18	23.58	22.06	23.24	22.47	23.64	24.04
	4H	22.37	23.44	22.81	23.86	24.29	22.84	23.91	23.27	24.32	24.76
	6H	22.92	23.85	23.37	24.29	24.75	23.41	24.34	23.86	24.78	25.24
	8H	23.06	23.94	23.52	24.38	24.84	23.57	24.45	24.03	24.89	25.35
	12H	23.15	23.93	23.63	24.41	24.88	23.67	24.45	24.15	24.93	25.40
8H	4H	22.72	23.59	23.18	24.03	24.50	23.13	24.00	23.59	24.45	24.91
	6H	23.38	24.10	23.87	24.59	25.06	23.81	24.54	24.30	25.02	25.50
	8H	23.58	24.23	24.09	24.74	25.22	24.04	24.70	24.55	25.20	25.69
	12H	23.72	24.29	24.23	24.78	25.34	24.20	24.77	24.70	25.26	25.82
12H	4H	22.75	23.54	23.23	24.01	24.48	23.16	23.94	23.64	24.42	24.88
	6H	23.43	24.08	23.94	24.59	25.07	23.85	24.50	24.36	25.01	25.50
	8H	23.69	24.26	24.20	24.75	25.31	24.14	24.71	24.64	25.20	25.76