

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: P1588591

Luminaire Tested: 24CZSP-A-37HE-L950

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2603-711-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-37HE-L950
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 3500 lumens, 90CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

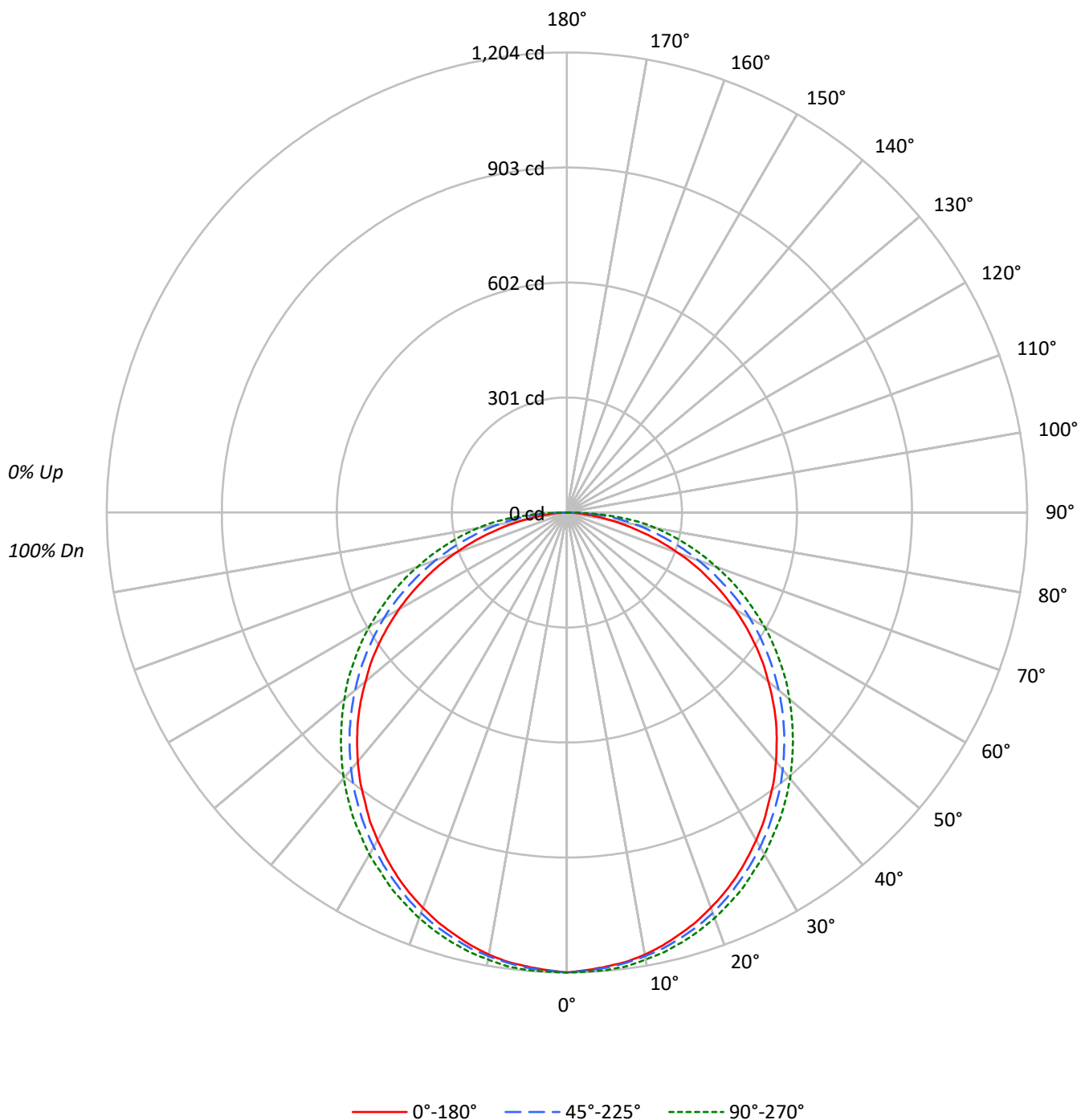
Lumens per Lamp: N/A
Luminaire Lumens: 3571.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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	98	94	105	101	97	93	96	93	90		92	90	87		89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54	49	44	42
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1844	1844	1844
5°	1834	1839	1848
10°	1828	1834	1848
15°	1812	1827	1846
20°	1795	1819	1841
25°	1775	1802	1836
30°	1751	1788	1828
35°	1724	1772	1822
40°	1701	1757	1816
45°	1676	1740	1811
50°	1639	1724	1811
55°	1605	1708	1816
60°	1556	1692	1829
65°	1490	1666	1841
70°	1394	1638	1863
75°	1240	1614	1924
80°	1020	1621	2092
85°	694	1807	2309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 2309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.2
10°-20°	326.2	9.1
20°-30°	493.3	13.8
30°-40°	595.2	16.7
40°-50°	622.4	17.4
50°-60°	574.2	16.1
60°-70°	456.6	12.8
70°-80°	288.2	8.1
80°-90°	101.0	2.8
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°	933.4	26.1
0°-40°	1528.6	42.8
0°-60°	2725.2	76.3
0°-90°	3571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1193	1202	1196	1199	1202	113
15°	1142	1155	1152	1161	1164	322
25°	1051	1066	1066	1080	1086	484
35°	922	942	948	967	974	578
45°	774	791	804	827	836	596
55°	601	619	640	670	680	537
65°	411	430	460	498	508	406
75°	210	233	273	313	325	222
85°	40	65	103	128	131	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1203.8	1203.8	1203.8	1203.8	1203.8
2.5°	1198.9	1206.8	1199.8	1203.8	1202.8
5°	1192.9	1201.8	1195.9	1198.9	1201.8
7.5°	1186.0	1195.9	1189.0	1193.9	1197.9
10°	1175.1	1185.0	1179.1	1185.0	1188.0
12.5°	1160.3	1172.2	1168.2	1175.1	1178.1
15°	1142.5	1155.4	1152.4	1161.3	1164.3
17.5°	1123.7	1137.6	1135.6	1145.5	1148.4
20°	1101.0	1116.8	1115.8	1125.7	1129.7
22.5°	1077.3	1093.1	1092.1	1103.0	1107.9
25°	1050.6	1066.4	1066.4	1080.3	1086.2
27.5°	1021.0	1038.7	1039.7	1053.6	1058.5
30°	990.3	1008.1	1011.1	1025.9	1033.8
32.5°	958.7	975.5	980.4	997.2	1003.2
35°	922.1	941.9	947.8	966.6	974.5
37.5°	888.5	906.3	914.2	934.0	941.9
40°	851.0	869.7	878.6	900.4	908.3
42.5°	812.4	831.2	841.1	864.8	872.7
45°	773.9	790.7	803.5	827.2	836.1
47.5°	731.4	750.1	764.0	789.7	798.6
50°	687.9	707.7	723.5	751.1	760.0
52.5°	646.4	664.2	682.0	712.6	722.5
55°	600.9	618.7	639.5	670.1	680.0
57.5°	554.5	572.2	596.0	628.6	639.5
60°	508.0	525.8	552.5	586.1	597.0
62.5°	459.6	477.4	507.0	541.6	551.5
65°	411.1	429.9	459.6	498.1	508.0
67.5°	361.7	380.5	412.1	452.7	463.5
70°	311.3	332.1	365.7	406.2	416.1
72.5°	258.9	282.7	320.2	359.8	371.6
75°	209.5	233.2	272.8	313.3	325.2
77.5°	161.1	187.8	227.3	269.8	282.7
80°	115.6	142.3	183.8	225.3	237.2
82.5°	74.1	101.8	143.3	182.8	192.7
85°	39.5	65.2	102.8	127.5	131.4
87.5°	12.8	33.6	46.5	61.3	62.3
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	13.68	15.35	14.05	15.67	15.98	14.40	16.08	14.77	16.39	16.70
	3H	15.47	16.99	15.85	17.31	17.67	16.57	18.09	16.95	18.41	18.77
	4H	16.10	17.53	16.50	17.88	18.25	17.50	18.94	17.90	19.28	19.66
	6H	16.52	17.85	16.93	18.22	18.61	18.36	19.69	18.77	20.06	20.45
	8H	16.63	17.91	17.06	18.30	18.69	18.74	20.01	19.16	20.40	20.80
	12H	16.69	17.91	17.12	18.30	18.72	19.05	20.27	19.48	20.65	21.08
4H	2H	14.45	15.88	14.84	16.23	16.60	15.01	16.44	15.40	16.79	17.16
	3H	16.47	17.68	16.88	18.07	18.47	17.42	18.63	17.83	19.03	19.42
	4H	17.23	18.33	17.66	18.74	19.18	18.52	19.62	18.95	20.03	20.47
	6H	17.79	18.75	18.24	19.19	19.64	19.56	20.53	20.02	20.97	21.42
	8H	17.94	18.85	18.40	19.29	19.75	20.03	20.93	20.49	21.37	21.84
	12H	18.04	18.86	18.52	19.33	19.80	20.42	21.24	20.90	21.71	22.18
8H	4H	17.72	18.62	18.18	19.06	19.53	18.84	19.74	19.30	20.18	20.65
	6H	18.43	19.18	18.92	19.67	20.14	20.06	20.81	20.55	21.30	21.77
	8H	18.67	19.35	19.18	19.85	20.34	20.65	21.33	21.16	21.84	22.32
	12H	18.84	19.44	19.35	19.93	20.49	21.20	21.80	21.70	22.29	22.85
12H	4H	17.82	18.64	18.30	19.11	19.58	18.87	19.69	19.35	20.16	20.63
	6H	18.59	19.27	19.09	19.77	20.26	20.12	20.80	20.63	21.31	21.79
	8H	18.91	19.52	19.42	20.01	20.56	20.80	21.40	21.30	21.89	22.45