

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: P1588235

Luminaire Tested: 24CZSP-37HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588235
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-37HE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

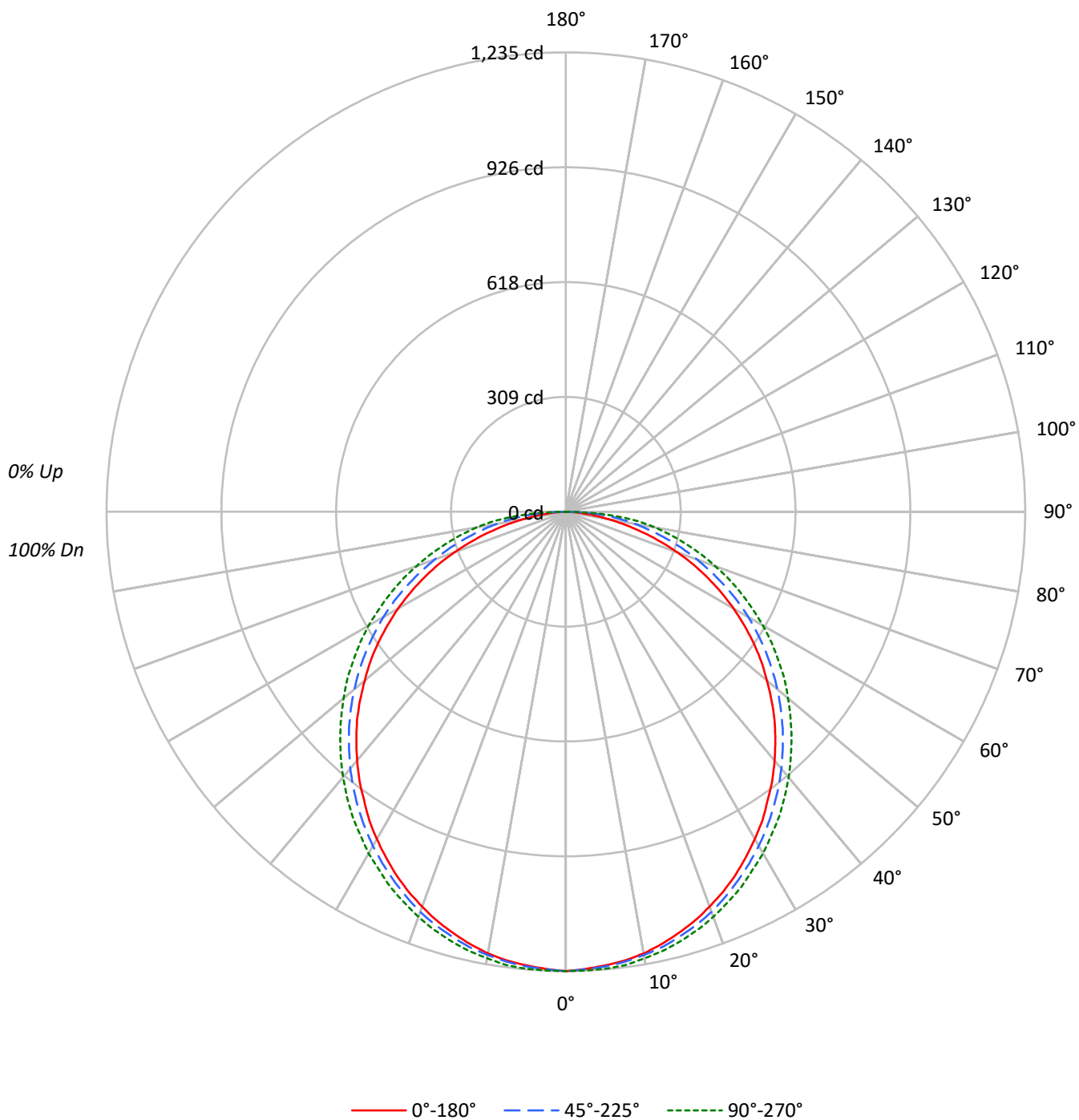
Lumens per Lamp: N/A
Luminaire Lumens: 3664.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		81	76	72		77
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61
5	75	62	52	46	73	60	52	45	58	51	45		56	50	44		54
6	69	55	46	40	67	54	46	39	53	45	39		51	44	39		49
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1892	1892	1892
5°	1882	1886	1896
10°	1875	1882	1896
15°	1859	1875	1894
20°	1841	1866	1889
25°	1822	1849	1883
30°	1797	1835	1876
35°	1769	1818	1870
40°	1746	1802	1863
45°	1720	1786	1858
50°	1682	1769	1858
55°	1647	1752	1863
60°	1597	1737	1876
65°	1529	1709	1889
70°	1430	1680	1912
75°	1272	1656	1974
80°	1046	1664	2147
85°	713	1854	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 85°

Luminance: 2371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	3.2
10°-20°	334.7	9.1
20°-30°	506.1	13.8
30°-40°	610.7	16.7
40°-50°	638.6	17.4
50°-60°	589.2	16.1
60°-70°	468.5	12.8
70°-80°	295.7	8.1
80°-90°	103.7	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°	957.7	26.1
0°-40°	1568.4	42.8
0°-60°	2796.2	76.3
0°-90°	3664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1224	1233	1227	1230	1233	116
15°	1172	1186	1182	1192	1195	331
25°	1078	1094	1094	1108	1114	496
35°	946	966	972	992	1000	593
45°	794	811	824	849	858	611
55°	617	635	656	688	698	551
65°	422	441	472	511	521	417
75°	215	239	280	322	334	228
85°	41	67	106	131	135	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.1	1235.1	1235.1	1235.1	1235.1
2.5°	1230.1	1238.2	1231.1	1235.1	1234.1
5°	1224.0	1233.1	1227.0	1230.1	1233.1
7.5°	1216.9	1227.0	1219.9	1225.0	1229.1
10°	1205.7	1215.9	1209.8	1215.9	1218.9
12.5°	1190.5	1202.7	1198.6	1205.7	1208.8
15°	1172.3	1185.5	1182.4	1191.5	1194.6
17.5°	1153.0	1167.2	1165.2	1175.3	1178.4
20°	1129.7	1145.9	1144.9	1155.0	1159.1
22.5°	1105.3	1121.6	1120.6	1131.7	1136.8
25°	1078.0	1094.2	1094.2	1108.4	1114.5
27.5°	1047.5	1065.8	1066.8	1081.0	1086.1
30°	1016.1	1034.4	1037.4	1052.6	1060.7
32.5°	983.7	1000.9	1006.0	1023.2	1029.3
35°	946.1	966.4	972.5	991.8	999.9
37.5°	911.7	929.9	938.0	958.3	966.4
40°	873.1	892.4	901.5	923.8	931.9
42.5°	833.6	852.8	863.0	887.3	895.4
45°	794.0	811.3	824.4	848.8	857.9
47.5°	750.4	769.7	783.9	810.2	819.4
50°	705.8	726.1	742.3	770.7	779.8
52.5°	663.2	681.5	699.7	731.1	741.3
55°	616.6	634.8	656.1	687.5	697.7
57.5°	568.9	587.2	611.5	645.0	656.1
60°	521.2	539.5	566.9	601.3	612.5
62.5°	471.5	489.8	520.2	555.7	565.9
65°	421.9	441.1	471.5	511.1	521.2
67.5°	371.2	390.4	422.9	464.4	475.6
70°	319.4	340.7	375.2	416.8	426.9
72.5°	265.7	290.0	328.6	369.1	381.3
75°	215.0	239.3	279.9	321.5	333.6
77.5°	165.3	192.7	233.2	276.8	290.0
80°	118.6	146.0	188.6	231.2	243.4
82.5°	76.1	104.4	147.0	187.6	197.7
85°	40.6	66.9	105.5	130.8	134.9
87.5°	13.2	34.5	47.7	62.9	63.9
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	13.77	15.44	14.14	15.76	16.07	14.49	16.16	14.86	16.48	16.79
	3H	15.56	17.08	15.94	17.40	17.76	16.66	18.18	17.04	18.50	18.86
	4H	16.19	17.62	16.59	17.97	18.34	17.59	19.03	17.99	19.37	19.75
	6H	16.61	17.94	17.02	18.31	18.70	18.45	19.78	18.86	20.15	20.54
	8H	16.72	18.00	17.15	18.39	18.78	18.83	20.10	19.25	20.49	20.89
	12H	16.78	18.00	17.21	18.39	18.81	19.14	20.36	19.57	20.74	21.17
4H	2H	14.54	15.97	14.93	16.32	16.69	15.10	16.53	15.49	16.88	17.25
	3H	16.56	17.77	16.97	18.16	18.56	17.51	18.72	17.92	19.11	19.51
	4H	17.32	18.42	17.75	18.83	19.27	18.61	19.71	19.04	20.12	20.56
	6H	17.88	18.84	18.33	19.28	19.73	19.65	20.62	20.11	21.06	21.51
	8H	18.03	18.94	18.49	19.38	19.84	20.12	21.02	20.58	21.46	21.93
	12H	18.13	18.95	18.61	19.42	19.89	20.51	21.33	20.99	21.80	22.27
8H	4H	17.81	18.71	18.27	19.15	19.62	18.93	19.83	19.39	20.27	20.74
	6H	18.52	19.27	19.01	19.76	20.23	20.15	20.90	20.64	21.39	21.86
	8H	18.76	19.44	19.27	19.94	20.43	20.74	21.42	21.25	21.93	22.41
	12H	18.93	19.53	19.44	20.02	20.58	21.29	21.89	21.79	22.38	22.94
12H	4H	17.91	18.73	18.39	19.20	19.67	18.96	19.78	19.44	20.25	20.72
	6H	18.68	19.36	19.18	19.86	20.35	20.21	20.89	20.72	21.40	21.88
	8H	19.00	19.61	19.51	20.09	20.65	20.89	21.49	21.39	21.98	22.54