

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: P1589715

Luminaire Tested: 24CZSP-SB-37HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-37HE-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

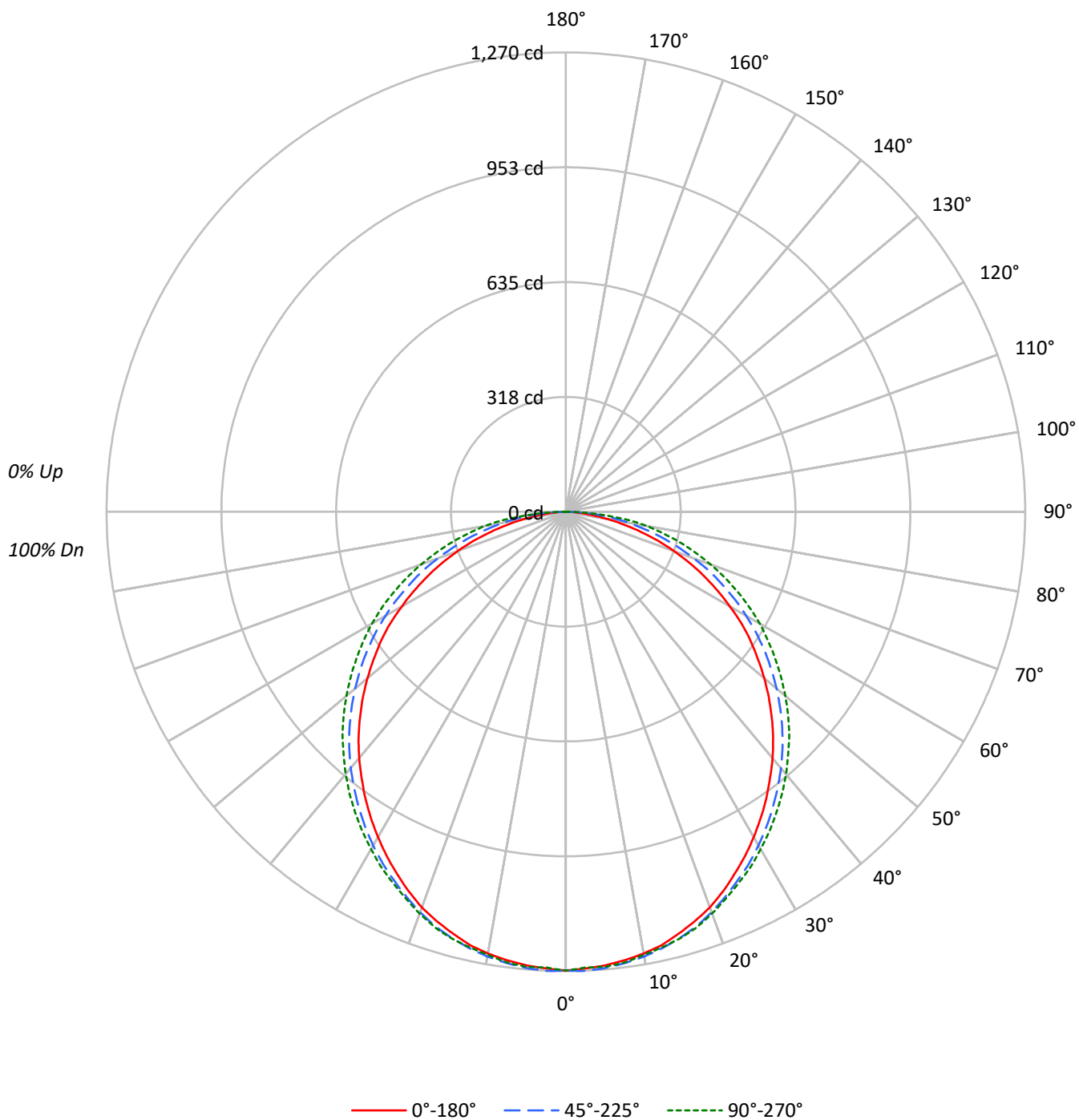
Lumens per Lamp: N/A
Luminaire Lumens: 3701.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1942	1942	1942
5°	1935	1946	1941
10°	1929	1942	1935
15°	1914	1934	1936
20°	1897	1920	1927
25°	1867	1900	1913
30°	1837	1884	1905
35°	1807	1866	1898
40°	1778	1850	1893
45°	1744	1832	1892
50°	1706	1812	1887
55°	1667	1793	1887
60°	1605	1766	1898
65°	1530	1732	1899
70°	1428	1684	1905
75°	1270	1623	1937
80°	1043	1554	2010
85°	689	1459	1817

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2059 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	3.2
10°-20°	343.4	9.3
20°-30°	517.6	14.0
30°-40°	623.3	16.8
40°-50°	651.1	17.6
50°-60°	598.2	16.2
60°-70°	471.1	12.7
70°-80°	288.8	7.8
80°-90°	87.6	2.4
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°	980.9	26.5
0°-40°	1604.2	43.3
0°-60°	2853.5	77.1
0°-90°	3701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1259	1261	1266	1264	1263	120
15°	1207	1212	1220	1224	1221	341
25°	1104	1112	1124	1136	1132	509
35°	967	979	998	1016	1015	605
45°	805	822	846	870	873	621
55°	624	642	671	700	706	557
65°	422	444	478	510	524	417
75°	215	240	274	307	327	228
85°	39	58	83	92	103	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.2	1268.2	1268.2	1268.2	1268.2
2.5°	1263.5	1266.6	1270.5	1264.3	1261.1
5°	1258.8	1261.1	1265.8	1264.3	1262.7
7.5°	1250.2	1251.7	1258.0	1258.0	1256.4
10°	1240.0	1243.1	1248.6	1247.8	1243.9
12.5°	1226.7	1229.0	1235.3	1235.3	1232.9
15°	1207.1	1211.8	1219.6	1224.3	1221.2
17.5°	1186.7	1191.4	1201.6	1206.3	1204.7
20°	1164.0	1167.9	1178.1	1185.2	1182.0
22.5°	1135.8	1140.5	1152.3	1160.1	1157.0
25°	1104.5	1111.5	1124.1	1135.8	1131.9
27.5°	1073.1	1081.0	1096.6	1108.4	1106.8
30°	1038.7	1048.9	1065.3	1080.2	1077.1
32.5°	1003.4	1015.2	1032.4	1048.1	1047.3
35°	966.6	979.1	997.9	1016.0	1015.2
37.5°	927.4	942.3	961.9	981.5	982.3
40°	889.1	903.2	925.1	946.2	947.0
42.5°	848.3	863.2	886.7	908.6	909.4
45°	805.2	822.5	846.0	869.5	873.4
47.5°	761.4	779.4	803.7	828.7	833.4
50°	715.9	734.7	760.6	787.2	791.9
52.5°	669.7	689.3	715.9	742.6	749.6
55°	624.3	642.3	671.3	700.3	706.5
57.5°	576.5	593.0	624.3	654.9	662.7
60°	524.0	544.4	576.5	607.1	619.6
62.5°	473.1	495.1	528.0	558.5	572.6
65°	422.2	444.1	477.8	509.9	524.0
67.5°	370.5	393.2	429.3	459.8	475.5
70°	318.8	341.5	376.0	408.9	425.3
72.5°	267.1	291.4	325.1	358.8	375.2
75°	214.6	239.7	274.2	307.1	327.4
77.5°	165.3	189.6	224.0	257.7	274.9
80°	118.3	142.6	176.2	209.9	227.9
82.5°	75.2	97.9	130.8	159.0	175.5
85°	39.2	58.0	83.0	92.4	103.4
87.5°	11.7	22.7	32.1	36.0	44.6
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	13.82	15.48	14.19	15.80	16.11	14.57	16.23	14.93	16.54	16.86
	3H	15.58	17.09	15.96	17.42	17.78	16.66	18.17	17.04	18.50	18.86
	4H	16.21	17.63	16.60	17.98	18.35	17.55	18.97	17.94	19.32	19.69
	6H	16.62	17.94	17.03	18.30	18.69	18.31	19.63	18.72	20.00	20.39
	8H	16.73	17.99	17.15	18.38	18.78	18.62	19.89	19.05	20.28	20.67
	12H	16.78	17.99	17.21	18.37	18.80	18.84	20.05	19.27	20.43	20.86
4H	2H	14.59	16.01	14.99	16.36	16.73	15.17	16.59	15.57	16.94	17.31
	3H	16.58	17.78	16.99	18.18	18.58	17.50	18.70	17.91	19.09	19.49
	4H	17.34	18.42	17.77	18.84	19.27	18.53	19.62	18.96	20.03	20.47
	6H	17.87	18.83	18.33	19.27	19.72	19.46	20.42	19.92	20.86	21.31
	8H	18.02	18.91	18.48	19.36	19.82	19.85	20.74	20.31	21.18	21.65
	12H	18.11	18.91	18.59	19.39	19.85	20.12	20.93	20.60	21.40	21.87
8H	4H	17.79	18.68	18.25	19.12	19.59	18.83	19.73	19.29	20.17	20.63
	6H	18.47	19.21	18.96	19.70	20.17	19.92	20.66	20.41	21.15	21.62
	8H	18.69	19.36	19.20	19.86	20.35	20.40	21.07	20.91	21.58	22.06
	12H	18.84	19.43	19.34	19.92	20.48	20.78	21.37	21.28	21.86	22.42
12H	4H	17.87	18.68	18.35	19.15	19.62	18.86	19.66	19.34	20.14	20.61
	6H	18.60	19.27	19.10	19.77	20.25	19.97	20.64	20.48	21.14	21.63
	8H	18.89	19.48	19.39	19.97	20.53	20.52	21.12	21.03	21.60	22.16