

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: P1588641

Luminaire Tested: 24CZSP-A-47-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-47-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

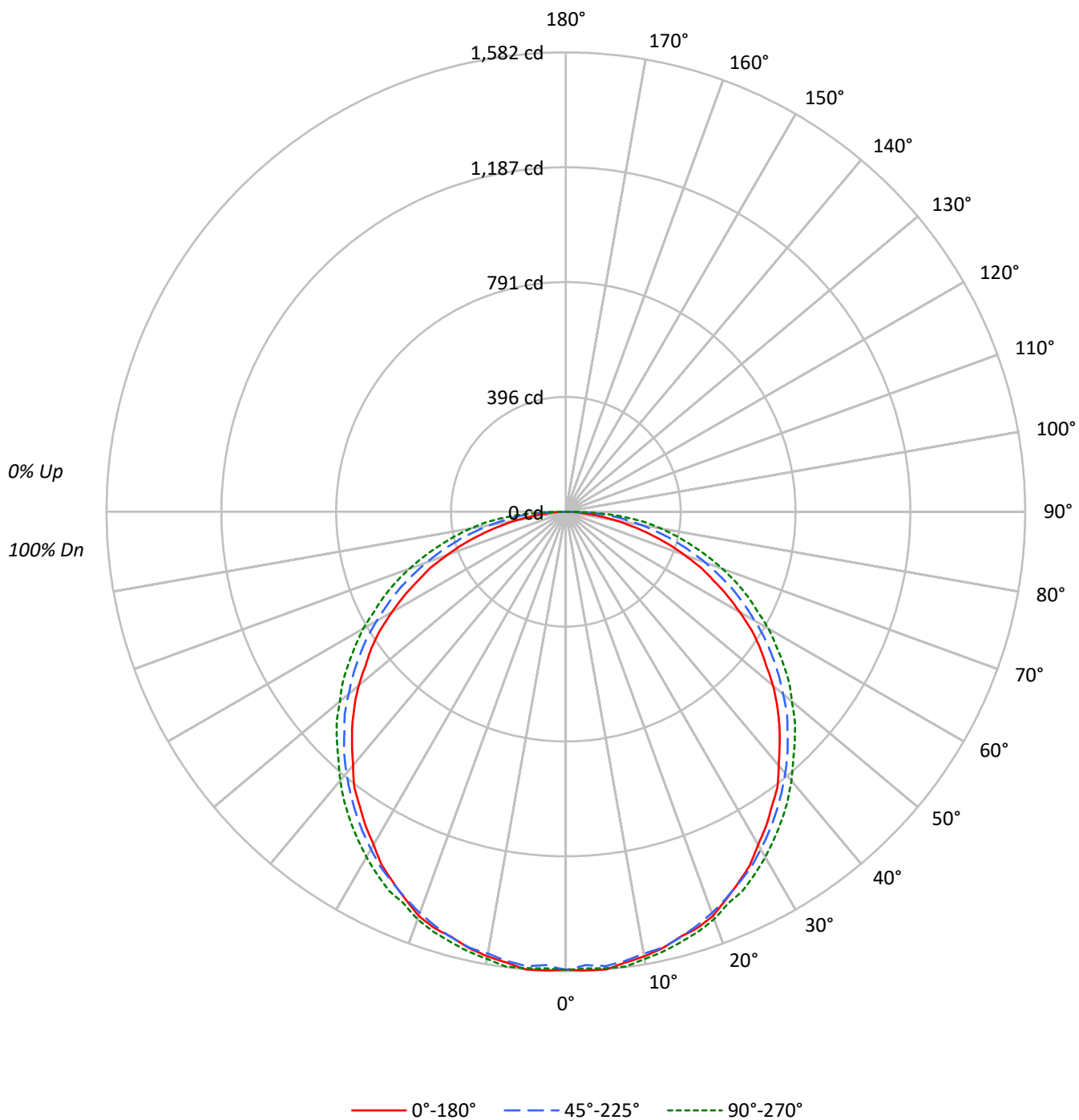
Lumens per Lamp: N/A
Luminaire Lumens: 4815.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 32.2
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	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2416	2416	2416
5°	2432	2415	2425
10°	2417	2403	2432
15°	2404	2408	2432
20°	2413	2396	2434
25°	2379	2383	2434
30°	2341	2374	2429
35°	2313	2361	2423
40°	2280	2349	2416
45°	2253	2338	2415
50°	2220	2327	2421
55°	2180	2319	2442
60°	2119	2303	2469
65°	2035	2303	2508
70°	1942	2287	2566
75°	1788	2293	2661
80°	1566	2339	2929
85°	1195	2696	3506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.1
10°-20°	430.5	8.9
20°-30°	654.0	13.6
30°-40°	792.3	16.5
40°-50°	833.5	17.3
50°-60°	775.0	16.1
60°-70°	624.0	13.0
70°-80°	404.2	8.4
80°-90°	151.6	3.1
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°	1234.4	25.6
0°-40°	2026.6	42.1
0°-60°	3635.2	75.5
0°-90°	4815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4815.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1582	1580	1571	1580	1578	150
15°	1516	1522	1519	1537	1534	430
25°	1408	1407	1410	1434	1440	649
35°	1237	1247	1263	1285	1296	775
45°	1040	1054	1079	1102	1115	802
55°	816	837	868	903	914	728
65°	562	587	635	673	692	558
75°	302	332	388	432	450	321
85°	68	100	153	191	200	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.5	1577.5	1577.5	1577.5	1577.5
2.5°	1581.0	1581.0	1562.5	1582.1	1574.0
5°	1582.1	1579.8	1570.6	1579.8	1577.5
7.5°	1566.0	1568.3	1560.2	1571.7	1579.8
10°	1554.4	1556.7	1545.2	1563.7	1563.7
12.5°	1539.4	1541.8	1537.1	1554.4	1551.0
15°	1516.4	1522.2	1518.7	1537.1	1533.7
17.5°	1503.7	1499.1	1495.6	1509.5	1516.4
20°	1480.6	1470.3	1470.3	1488.7	1493.3
22.5°	1443.7	1440.3	1441.4	1464.5	1459.9
25°	1408.0	1406.8	1410.3	1434.5	1440.3
27.5°	1372.2	1369.9	1380.3	1403.4	1408.0
30°	1323.8	1328.4	1342.3	1367.6	1373.4
32.5°	1283.5	1291.5	1304.2	1328.4	1335.3
35°	1237.3	1246.6	1262.7	1284.6	1296.1
37.5°	1197.0	1202.7	1220.0	1240.8	1254.6
40°	1140.5	1155.5	1175.1	1205.0	1208.5
42.5°	1089.7	1104.7	1130.1	1162.4	1158.9
45°	1040.1	1054.0	1079.3	1102.4	1115.1
47.5°	987.1	999.8	1033.2	1060.9	1070.1
50°	931.7	947.9	976.7	1005.5	1015.9
52.5°	869.5	886.8	923.7	954.8	969.8
55°	816.4	837.2	868.3	902.9	914.4
57.5°	757.6	774.9	813.0	847.6	859.1
60°	691.9	712.6	751.9	788.8	806.0
62.5°	628.5	651.5	693.0	731.1	744.9
65°	561.6	587.0	635.4	673.4	691.9
67.5°	503.9	524.7	572.0	614.6	634.2
70°	433.6	461.3	510.8	558.1	573.1
72.5°	371.3	395.5	447.4	494.7	513.1
75°	302.1	332.1	387.5	432.4	449.7
77.5°	238.7	269.8	325.2	372.5	392.1
80°	177.6	207.6	265.2	313.7	332.1
82.5°	119.9	149.9	207.6	254.8	275.6
85°	68.0	100.3	153.4	191.4	199.5
87.5°	30.0	57.7	86.5	103.8	110.7
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	14.75	16.43	15.11	16.74	17.06	15.42	17.11	15.79	17.42	17.73
	3H	16.60	18.13	16.98	18.46	18.82	17.64	19.17	18.02	19.50	19.86
	4H	17.29	18.73	17.69	19.08	19.46	18.61	20.05	19.00	20.40	20.77
	6H	17.78	19.12	18.19	19.49	19.88	19.50	20.84	19.91	21.20	21.59
	8H	17.93	19.21	18.35	19.60	20.00	19.90	21.19	20.32	21.57	21.97
	12H	18.02	19.25	18.45	19.63	20.06	20.26	21.49	20.69	21.87	22.30
4H	2H	15.54	16.99	15.94	17.33	17.71	16.06	17.51	16.46	17.85	18.23
	3H	17.63	18.85	18.04	19.25	19.65	18.52	19.74	18.93	20.14	20.54
	4H	18.45	19.56	18.88	19.97	20.41	19.65	20.76	20.08	21.17	21.61
	6H	19.08	20.05	19.53	20.49	20.94	20.72	21.70	21.17	22.14	22.59
	8H	19.27	20.19	19.73	20.63	21.09	21.21	22.13	21.67	22.57	23.03
	12H	19.41	20.23	19.89	20.71	21.17	21.66	22.49	22.14	22.96	23.43
8H	4H	18.96	19.87	19.42	20.31	20.78	19.99	20.91	20.45	21.35	21.81
	6H	19.74	20.51	20.23	21.00	21.47	21.24	22.01	21.73	22.50	22.97
	8H	20.03	20.72	20.53	21.22	21.70	21.87	22.56	22.37	23.06	23.54
	12H	20.24	20.86	20.75	21.35	21.90	22.48	23.09	22.98	23.58	24.14
12H	4H	19.07	19.89	19.54	20.37	20.83	20.03	20.86	20.51	21.33	21.80
	6H	19.91	20.60	20.42	21.11	21.59	21.32	22.01	21.82	22.51	23.00
	8H	20.28	20.89	20.78	21.38	21.94	22.02	22.64	22.53	23.12	23.68