

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: P1588297

Luminaire Tested: 24CZSP-47-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588297
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-47-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

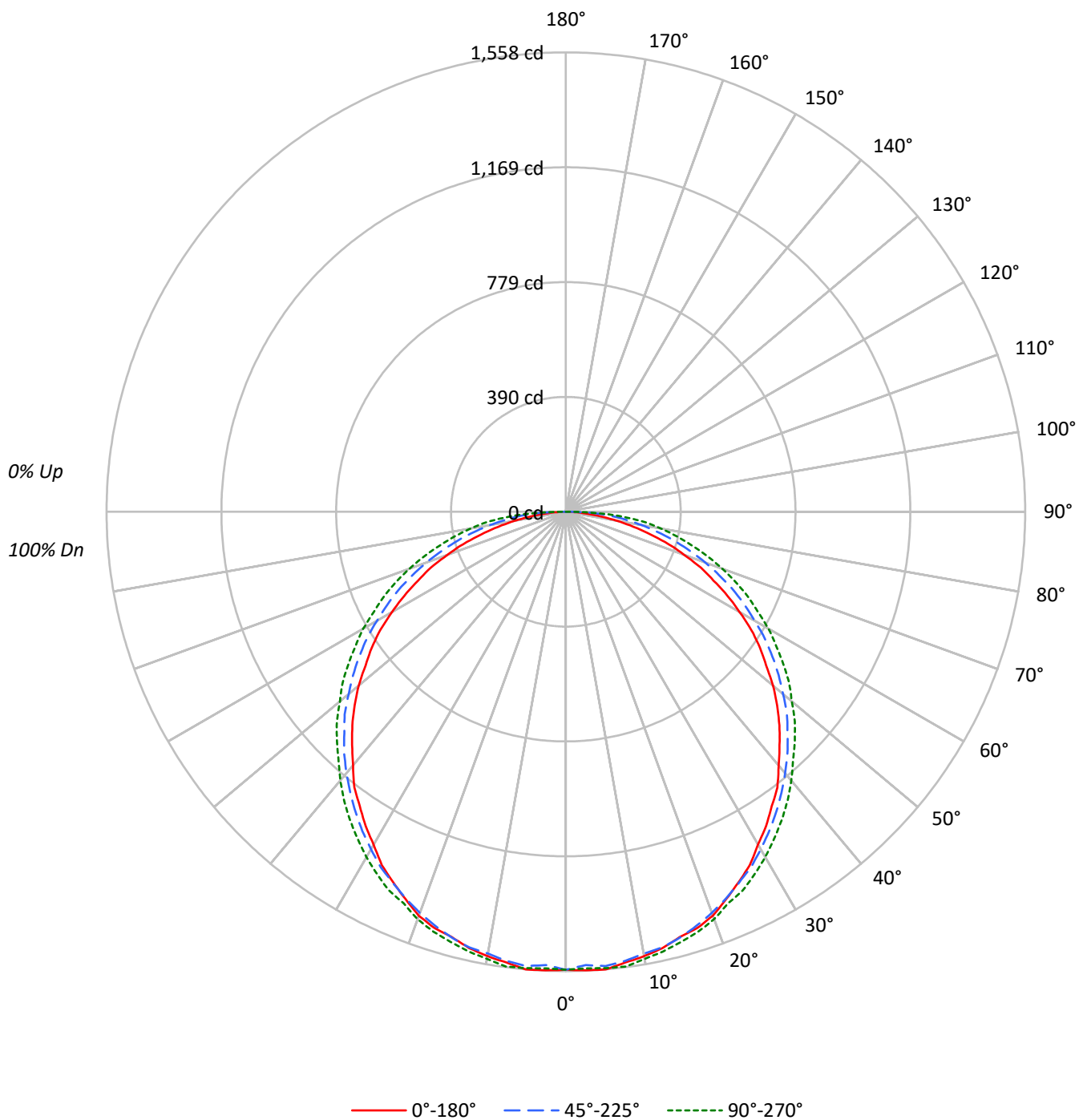
Lumens per Lamp: N/A
Luminaire Lumens: 4741.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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			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	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2379	2379	2379
5°	2395	2378	2388
10°	2380	2366	2394
15°	2368	2371	2394
20°	2376	2360	2397
25°	2343	2347	2397
30°	2305	2337	2392
35°	2278	2325	2386
40°	2245	2313	2379
45°	2218	2302	2378
50°	2186	2292	2384
55°	2147	2283	2404
60°	2087	2268	2431
65°	2004	2267	2469
70°	1912	2253	2527
75°	1761	2258	2620
80°	1543	2303	2884
85°	1177	2654	3451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.1
10°-20°	423.9	8.9
20°-30°	644.0	13.6
30°-40°	780.1	16.5
40°-50°	820.7	17.3
50°-60°	763.1	16.1
60°-70°	614.4	13.0
70°-80°	398.0	8.4
80°-90°	149.3	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°	1215.4	25.6
0°-40°	1995.5	42.1
0°-60°	3579.3	75.5
0°-90°	4741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1558	1556	1546	1556	1553	148
15°	1493	1499	1495	1514	1510	423
25°	1386	1385	1389	1412	1418	639
35°	1218	1227	1243	1265	1276	763
45°	1024	1038	1063	1086	1098	790
55°	804	824	855	889	900	717
65°	553	578	626	663	681	550
75°	298	327	382	426	443	316
85°	67	99	151	188	196	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.3	1553.3	1553.3	1553.3	1553.3
2.5°	1556.7	1556.7	1538.5	1557.8	1549.9
5°	1557.8	1555.5	1546.4	1555.5	1553.3
7.5°	1541.9	1544.2	1536.2	1547.6	1555.5
10°	1530.6	1532.8	1521.5	1539.6	1539.6
12.5°	1515.8	1518.1	1513.5	1530.6	1527.1
15°	1493.1	1498.8	1495.4	1513.5	1510.1
17.5°	1480.6	1476.1	1472.6	1486.3	1493.1
20°	1457.9	1447.7	1447.7	1465.8	1470.4
22.5°	1421.5	1418.1	1419.3	1442.0	1437.4
25°	1386.4	1385.2	1388.6	1412.5	1418.1
27.5°	1351.2	1348.9	1359.1	1381.8	1386.4
30°	1303.5	1308.0	1321.6	1346.6	1352.3
32.5°	1263.7	1271.7	1284.2	1308.0	1314.8
35°	1218.3	1227.4	1243.3	1264.9	1276.2
37.5°	1178.6	1184.2	1201.3	1221.7	1235.3
40°	1122.9	1137.7	1157.0	1186.5	1189.9
42.5°	1073.0	1087.7	1112.7	1144.5	1141.1
45°	1024.2	1037.8	1062.8	1085.5	1098.0
47.5°	971.9	984.4	1017.3	1044.6	1053.7
50°	917.4	933.3	961.7	990.1	1000.3
52.5°	856.1	873.1	909.5	940.1	954.9
55°	803.9	824.3	855.0	889.0	900.4
57.5°	746.0	763.0	800.5	834.5	845.9
60°	681.3	701.7	740.3	776.6	793.7
62.5°	618.8	641.5	682.4	719.9	733.5
65°	553.0	577.9	625.6	663.1	681.3
67.5°	496.2	516.6	563.2	605.2	624.5
70°	426.9	454.2	503.0	549.5	564.3
72.5°	365.6	389.5	440.5	487.1	505.3
75°	297.5	327.0	381.5	425.8	442.8
77.5°	235.0	265.7	320.2	366.7	386.0
80°	174.9	204.4	261.1	308.8	327.0
82.5°	118.1	147.6	204.4	250.9	271.4
85°	67.0	98.8	151.0	188.5	196.4
87.5°	29.5	56.8	85.2	102.2	109.0
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	14.70	16.38	15.06	16.69	17.00	15.37	17.05	15.73	17.37	17.68
	3H	16.55	18.08	16.93	18.40	18.76	17.59	19.12	17.96	19.44	19.80
	4H	17.24	18.68	17.63	19.03	19.40	18.55	20.00	18.95	20.34	20.72
	6H	17.73	19.07	18.14	19.43	19.82	19.44	20.79	19.85	21.15	21.54
	8H	17.88	19.16	18.30	19.55	19.95	19.85	21.13	20.27	21.52	21.92
	12H	17.96	19.20	18.39	19.58	20.01	20.21	21.44	20.63	21.82	22.25
4H	2H	15.49	16.93	15.89	17.28	17.65	16.01	17.45	16.41	17.80	18.17
	3H	17.58	18.80	17.99	19.19	19.59	18.47	19.69	18.88	20.09	20.48
	4H	18.40	19.51	18.83	19.92	20.35	19.60	20.71	20.03	21.12	21.55
	6H	19.02	20.00	19.47	20.44	20.89	20.67	21.64	21.12	22.08	22.53
	8H	19.22	20.13	19.68	20.57	21.04	21.16	22.07	21.62	22.51	22.98
	12H	19.35	20.18	19.83	20.65	21.12	21.61	22.44	22.09	22.91	23.38
8H	4H	18.90	19.82	19.36	20.26	20.72	19.94	20.85	20.40	21.30	21.76
	6H	19.69	20.46	20.18	20.94	21.42	21.19	21.96	21.68	22.44	22.92
	8H	19.97	20.66	20.48	21.17	21.65	21.81	22.50	22.32	23.01	23.49
	12H	20.19	20.80	20.69	21.29	21.85	22.42	23.04	22.93	23.53	24.08
12H	4H	19.01	19.84	19.49	20.31	20.78	19.98	20.80	20.46	21.28	21.75
	6H	19.86	20.55	20.36	21.05	21.54	21.26	21.96	21.77	22.46	22.94
	8H	20.23	20.84	20.73	21.33	21.89	21.97	22.58	22.47	23.07	23.63

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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