

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: P1588635

Luminaire Tested: 24CZSP-A-47-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588635
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-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

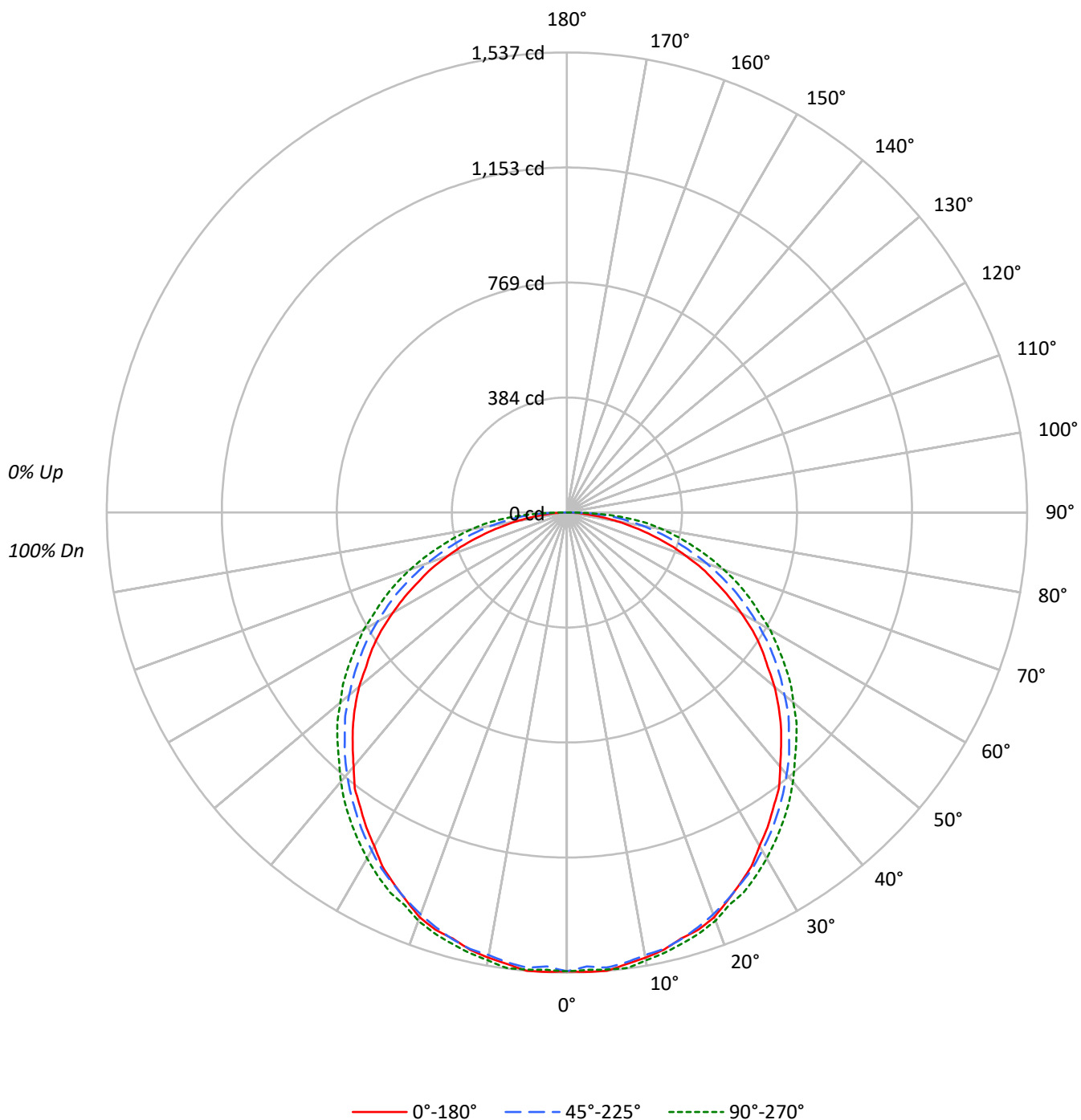
Lumens per Lamp: N/A
Luminaire Lumens: 4679.0 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1588635

CATALOG NUMBER: 24CZSP-A-47-L835

Luminous Intensity Polar Plot



TEST NUMBER: P1588635

CATALOG NUMBER: 24CZSP-A-47-L835

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°	2348	2348	2348
5°	2364	2346	2357
10°	2349	2335	2363
15°	2337	2340	2363
20°	2345	2329	2365
25°	2312	2316	2365
30°	2275	2307	2360
35°	2248	2294	2355
40°	2216	2283	2348
45°	2189	2272	2347
50°	2157	2262	2352
55°	2119	2253	2373
60°	2059	2238	2399
65°	1978	2238	2437
70°	1887	2223	2494
75°	1737	2228	2586
80°	1522	2273	2846
85°	1162	2618	3407

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3778 cd/sqm

TEST NUMBER: P1588635

CATALOG NUMBER: 24CZSP-A-47-L835

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	3.1
10°-20°	418.4	8.9
20°-30°	635.6	13.6
30°-40°	769.9	16.5
40°-50°	810.0	17.3
50°-60°	753.1	16.1
60°-70°	606.4	13.0
70°-80°	392.8	8.4
80°-90°	147.3	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°	1199.5	25.6
0°-40°	1969.4	42.1
0°-60°	3532.5	75.5
0°-90°	4679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4679.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1537	1535	1526	1535	1533	146
15°	1474	1479	1476	1494	1490	417
25°	1368	1367	1370	1394	1400	631
35°	1202	1211	1227	1248	1260	753
45°	1011	1024	1049	1071	1084	779
55°	793	814	844	877	889	708
65°	546	570	617	654	672	543
75°	294	323	376	420	437	312
85°	66	98	149	186	194	81
90°	0	0	0	0	0	



TEST NUMBER: P1588635

CATALOG NUMBER: 24CZSP-A-47-L835

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1532.9	1532.9	1532.9	1532.9	1532.9
2.5°	1536.3	1536.3	1518.4	1537.4	1529.6
5°	1537.4	1535.2	1526.2	1535.2	1532.9
7.5°	1521.7	1524.0	1516.1	1527.3	1535.2
10°	1510.5	1512.8	1501.6	1519.5	1519.5
12.5°	1496.0	1498.2	1493.7	1510.5	1507.2
15°	1473.6	1479.2	1475.8	1493.7	1490.4
17.5°	1461.2	1456.7	1453.4	1466.8	1473.6
20°	1438.8	1428.7	1428.7	1446.7	1451.1
22.5°	1403.0	1399.6	1400.7	1423.1	1418.6
25°	1368.2	1367.1	1370.5	1394.0	1399.6
27.5°	1333.5	1331.2	1341.3	1363.7	1368.2
30°	1286.4	1290.9	1304.3	1329.0	1334.6
32.5°	1247.2	1255.0	1267.4	1290.9	1297.6
35°	1202.4	1211.3	1227.0	1248.3	1259.5
37.5°	1163.2	1168.8	1185.6	1205.7	1219.2
40°	1108.2	1122.8	1141.9	1171.0	1174.4
42.5°	1058.9	1073.5	1098.2	1129.5	1126.2
45°	1010.8	1024.2	1048.9	1071.3	1083.6
47.5°	959.2	971.5	1004.0	1030.9	1039.9
50°	905.4	921.1	949.1	977.1	987.2
52.5°	844.9	861.7	897.6	927.8	942.4
55°	793.4	813.5	843.8	877.4	888.6
57.5°	736.2	753.0	790.0	823.6	834.8
60°	672.3	692.5	730.6	766.5	783.3
62.5°	610.7	633.1	673.5	710.4	723.9
65°	545.7	570.4	617.4	654.4	672.3
67.5°	489.7	509.9	555.8	597.3	616.3
70°	421.3	448.2	496.4	542.4	556.9
72.5°	360.8	384.4	434.8	480.7	498.7
75°	293.6	322.7	376.5	420.2	437.0
77.5°	232.0	262.2	316.0	361.9	381.0
80°	172.6	201.7	257.7	304.8	322.7
82.5°	116.5	145.7	201.7	247.6	267.8
85°	66.1	97.5	149.0	186.0	193.9
87.5°	29.1	56.0	84.0	100.9	107.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588635

CATALOG NUMBER: 24CZSP-A-47-L835

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	14.65	16.33	15.01	16.64	16.96	15.32	17.01	15.69	17.32	17.63
	3H	16.50	18.03	16.88	18.36	18.72	17.54	19.07	17.92	19.40	19.76
	4H	17.19	18.63	17.59	18.98	19.36	18.51	19.95	18.90	20.30	20.67
	6H	17.68	19.02	18.09	19.39	19.78	19.40	20.74	19.81	21.10	21.49
	8H	17.83	19.11	18.25	19.50	19.90	19.80	21.09	20.22	21.47	21.87
	12H	17.92	19.15	18.35	19.53	19.96	20.16	21.39	20.59	21.77	22.20
4H	2H	15.44	16.89	15.84	17.23	17.61	15.96	17.41	16.36	17.75	18.13
	3H	17.53	18.75	17.94	19.15	19.55	18.42	19.64	18.83	20.04	20.44
	4H	18.35	19.46	18.78	19.87	20.31	19.55	20.66	19.98	21.07	21.51
	6H	18.98	19.95	19.43	20.39	20.84	20.62	21.60	21.07	22.04	22.49
	8H	19.17	20.09	19.63	20.53	20.99	21.11	22.03	21.57	22.47	22.93
	12H	19.31	20.13	19.79	20.61	21.08	21.56	22.39	22.04	22.86	23.33
8H	4H	18.86	19.77	19.32	20.21	20.68	19.89	20.81	20.35	21.25	21.71
	6H	19.64	20.41	20.13	20.90	21.37	21.14	21.91	21.63	22.40	22.87
	8H	19.93	20.62	20.43	21.12	21.61	21.77	22.46	22.27	22.96	23.44
	12H	20.14	20.76	20.65	21.25	21.80	22.38	22.99	22.88	23.48	24.04
12H	4H	18.97	19.79	19.44	20.27	20.73	19.93	20.76	20.41	21.23	21.70
	6H	19.81	20.50	20.32	21.01	21.49	21.22	21.91	21.72	22.41	22.90
	8H	20.18	20.79	20.68	21.28	21.84	21.92	22.54	22.43	23.02	23.58