

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: P1588599

Luminaire Tested: 24CZSP-A-42-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588599
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-42-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

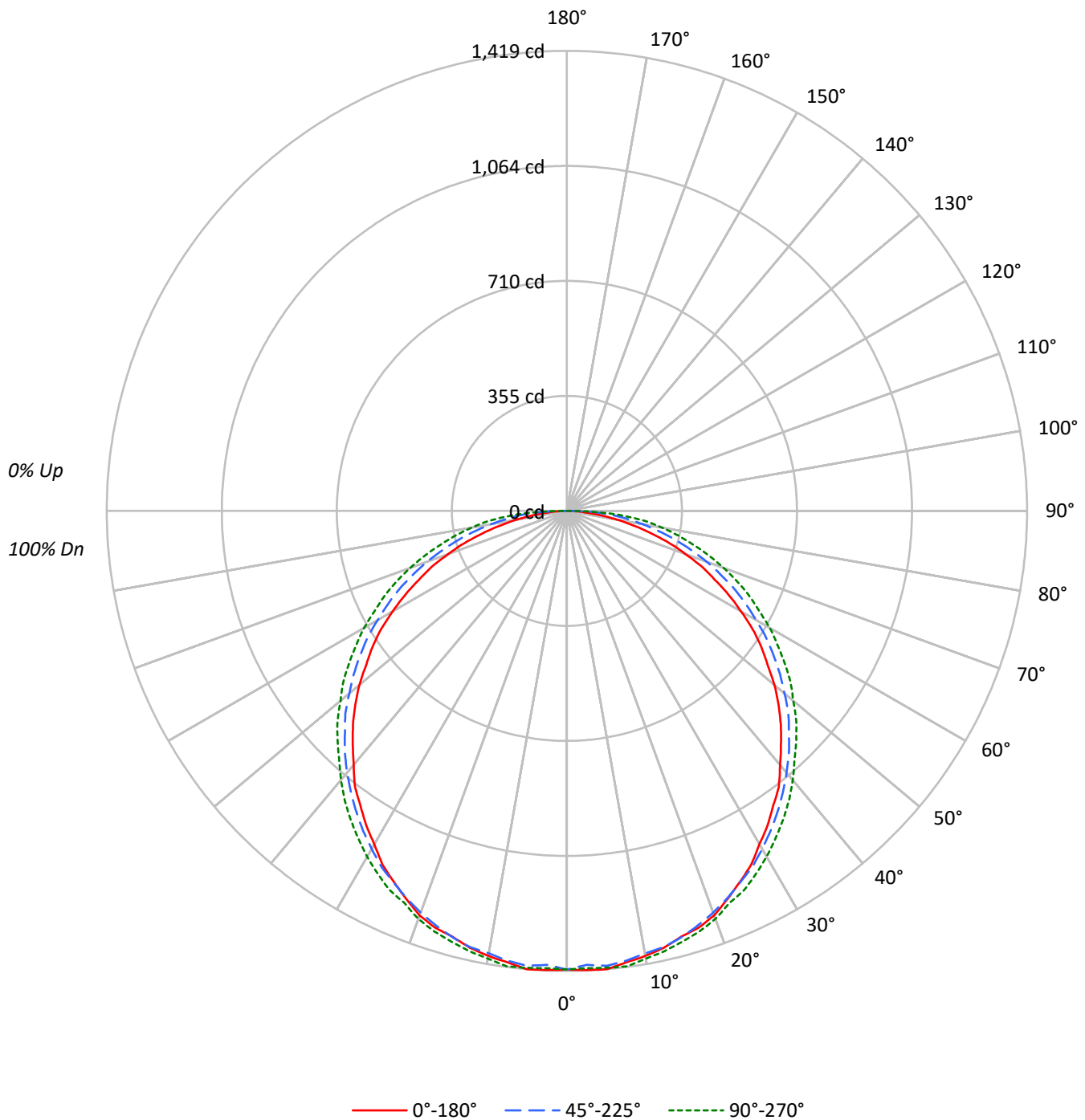
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4318.0 lumens
Efficiency: N/A
Efficacy: 150.5 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): 28.7
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			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°	2167	2167	2167
5°	2181	2166	2175
10°	2168	2155	2181
15°	2156	2160	2181
20°	2164	2149	2183
25°	2134	2137	2183
30°	2100	2129	2178
35°	2075	2117	2173
40°	2045	2107	2167
45°	2020	2097	2166
50°	1991	2087	2171
55°	1955	2079	2190
60°	1901	2065	2214
65°	1825	2065	2249
70°	1741	2051	2302
75°	1603	2056	2387
80°	1405	2097	2627
85°	1072	2416	3144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3487 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.1
10°-20°	386.1	8.9
20°-30°	586.5	13.6
30°-40°	710.5	16.5
40°-50°	747.5	17.3
50°-60°	695.0	16.1
60°-70°	559.6	13.0
70°-80°	362.5	8.4
80°-90°	135.9	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°	1107.0	25.6
0°-40°	1817.4	42.1
0°-60°	3259.9	75.5
0°-90°	4318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1419	1417	1408	1417	1415	134
15°	1360	1365	1362	1378	1375	385
25°	1263	1262	1265	1286	1292	582
35°	1110	1118	1132	1152	1162	695
45°	933	945	968	989	1000	719
55°	732	751	779	810	820	653
65°	504	526	570	604	620	501
75°	271	298	348	388	403	288
85°	61	90	138	172	179	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1414.7	1414.7	1414.7	1414.7	1414.7
2.5°	1417.8	1417.8	1401.2	1418.8	1411.6
5°	1418.8	1416.7	1408.5	1416.7	1414.7
7.5°	1404.3	1406.4	1399.2	1409.5	1416.7
10°	1394.0	1396.1	1385.7	1402.3	1402.3
12.5°	1380.5	1382.6	1378.5	1394.0	1390.9
15°	1359.9	1365.0	1361.9	1378.5	1375.4
17.5°	1348.5	1344.4	1341.3	1353.7	1359.9
20°	1327.8	1318.5	1318.5	1335.0	1339.2
22.5°	1294.7	1291.6	1292.6	1313.3	1309.2
25°	1262.7	1261.6	1264.7	1286.4	1291.6
27.5°	1230.6	1228.5	1237.8	1258.5	1262.7
30°	1187.2	1191.3	1203.7	1226.5	1231.6
32.5°	1151.0	1158.2	1169.6	1191.3	1197.5
35°	1109.6	1117.9	1132.4	1152.0	1162.3
37.5°	1073.4	1078.6	1094.1	1112.7	1125.1
40°	1022.7	1036.2	1053.8	1080.7	1083.8
42.5°	977.2	990.7	1013.4	1042.4	1039.3
45°	932.8	945.2	967.9	988.6	1000.0
47.5°	885.2	896.6	926.6	951.4	959.7
50°	835.6	850.0	875.9	901.8	911.1
52.5°	779.7	795.2	828.3	856.3	869.7
55°	732.2	750.8	778.7	809.7	820.1
57.5°	679.4	694.9	729.1	760.1	770.4
60°	620.5	639.1	674.2	707.3	722.8
62.5°	563.6	584.3	621.5	655.6	668.0
65°	503.6	526.4	569.8	603.9	620.5
67.5°	451.9	470.5	512.9	551.2	568.8
70°	388.8	413.6	458.1	500.5	514.0
72.5°	333.0	354.7	401.2	443.6	460.2
75°	270.9	297.8	347.5	387.8	403.3
77.5°	214.1	242.0	291.6	334.0	351.6
80°	159.3	186.1	237.8	281.3	297.8
82.5°	107.5	134.4	186.1	228.5	247.2
85°	61.0	90.0	137.5	171.7	178.9
87.5°	26.9	51.7	77.6	93.1	99.3
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	14.37	16.05	14.73	16.37	16.68	15.05	16.73	15.41	17.04	17.36
	3H	16.22	17.75	16.60	18.08	18.44	17.26	18.79	17.64	19.12	19.48
	4H	16.91	18.36	17.31	18.70	19.08	18.23	19.67	18.62	20.02	20.39
	6H	17.40	18.75	17.81	19.11	19.50	19.12	20.46	19.53	20.82	21.21
	8H	17.55	18.84	17.97	19.22	19.62	19.52	20.81	19.95	21.20	21.59
	12H	17.64	18.87	18.07	19.25	19.68	19.88	21.11	20.31	21.50	21.92
4H	2H	15.16	16.61	15.56	16.95	17.33	15.68	17.13	16.08	17.47	17.85
	3H	17.25	18.47	17.66	18.87	19.27	18.14	19.37	18.55	19.76	20.16
	4H	18.07	19.18	18.50	19.59	20.03	19.27	20.38	19.70	20.79	21.23
	6H	18.70	19.67	19.15	20.11	20.56	20.34	21.32	20.79	21.76	22.21
	8H	18.89	19.81	19.35	20.25	20.71	20.83	21.75	21.29	22.19	22.65
	12H	19.03	19.85	19.51	20.33	20.80	21.29	22.11	21.76	22.59	23.05
8H	4H	18.58	19.49	19.04	19.94	20.40	19.61	20.53	20.07	20.97	21.43
	6H	19.36	20.13	19.86	20.62	21.09	20.87	21.63	21.36	22.12	22.59
	8H	19.65	20.34	20.15	20.84	21.33	21.49	22.18	21.99	22.68	23.17
	12H	19.87	20.48	20.37	20.97	21.52	22.10	22.71	22.60	23.20	23.76
12H	4H	18.69	19.51	19.17	19.99	20.45	19.65	20.48	20.13	20.95	21.42
	6H	19.53	20.22	20.04	20.73	21.21	20.94	21.63	21.44	22.13	22.62
	8H	19.90	20.51	20.41	21.00	21.56	21.64	22.26	22.15	22.75	23.30