

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: P1589739

Luminaire Tested: 24CZSP-SB-42-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589739
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-42-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

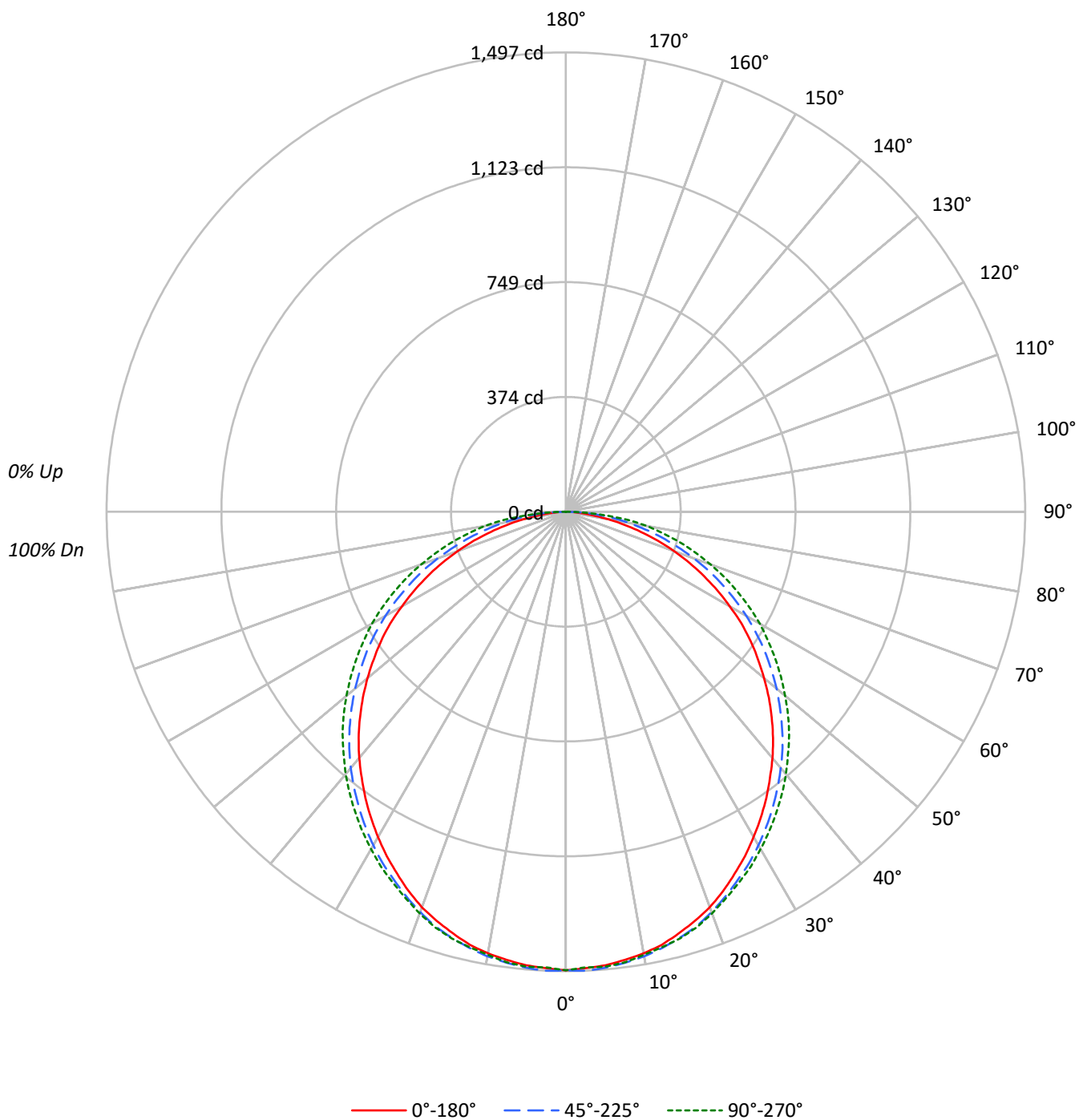
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4361.0 lumens
Efficiency: N/A
Efficacy: 152.0 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): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68		
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2289	2289	2289
5°	2281	2293	2288
10°	2272	2288	2280
15°	2255	2279	2282
20°	2236	2263	2270
25°	2199	2238	2254
30°	2165	2220	2244
35°	2130	2199	2237
40°	2095	2180	2231
45°	2055	2159	2229
50°	2010	2135	2224
55°	1964	2112	2223
60°	1892	2081	2236
65°	1803	2040	2238
70°	1682	1984	2244
75°	1497	1912	2283
80°	1230	1832	2369
85°	812	1719	2140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.2
10°-20°	404.6	9.3
20°-30°	609.8	14.0
30°-40°	734.4	16.8
40°-50°	767.3	17.6
50°-60°	704.9	16.2
60°-70°	555.1	12.7
70°-80°	340.3	7.8
80°-90°	103.2	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°	1155.8	26.5
0°-40°	1890.2	43.3
0°-60°	3362.4	77.1
0°-90°	4361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1483	1486	1492	1490	1488	141
15°	1422	1428	1437	1443	1439	401
25°	1301	1310	1324	1338	1334	600
35°	1139	1154	1176	1197	1196	712
45°	949	969	997	1024	1029	732
55°	736	757	791	825	832	656
65°	498	523	563	601	618	492
75°	253	282	323	362	386	269
85°	46	68	98	109	122	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.3	1494.3	1494.3	1494.3	1494.3
2.5°	1488.8	1492.5	1497.1	1489.7	1486.0
5°	1483.3	1486.0	1491.6	1489.7	1487.9
7.5°	1473.1	1475.0	1482.3	1482.3	1480.5
10°	1461.1	1464.8	1471.3	1470.3	1465.7
12.5°	1445.4	1448.2	1455.6	1455.6	1452.8
15°	1422.3	1427.9	1437.1	1442.7	1439.0
17.5°	1398.3	1403.9	1415.9	1421.4	1419.6
20°	1371.6	1376.2	1388.2	1396.5	1392.8
22.5°	1338.4	1343.9	1357.7	1367.0	1363.3
25°	1301.4	1309.7	1324.5	1338.4	1333.7
27.5°	1264.5	1273.7	1292.2	1306.0	1304.2
30°	1223.9	1235.9	1255.3	1272.8	1269.1
32.5°	1182.4	1196.2	1216.5	1235.0	1234.1
35°	1139.0	1153.8	1175.9	1197.1	1196.2
37.5°	1092.8	1110.4	1133.4	1156.5	1157.4
40°	1047.6	1064.2	1090.1	1115.0	1115.9
42.5°	999.6	1017.1	1044.8	1070.7	1071.6
45°	948.8	969.2	996.8	1024.5	1029.1
47.5°	897.2	918.4	947.0	976.5	982.1
50°	843.6	865.8	896.2	927.6	933.2
52.5°	789.2	812.2	843.6	875.0	883.3
55°	735.6	756.9	791.0	825.2	832.5
57.5°	679.3	698.7	735.6	771.6	780.9
60°	617.5	641.5	679.3	715.3	730.1
62.5°	557.5	583.3	622.1	658.1	674.7
65°	497.5	523.3	563.0	600.9	617.5
67.5°	436.6	463.3	505.8	541.8	560.3
70°	375.7	402.4	443.0	481.8	501.2
72.5°	314.7	343.4	383.0	422.7	442.1
75°	252.9	282.4	323.1	361.8	385.8
77.5°	194.8	223.4	264.0	303.7	324.0
80°	139.4	168.0	207.7	247.4	268.6
82.5°	88.6	115.4	154.1	187.4	206.8
85°	46.2	68.3	97.8	108.9	121.8
87.5°	13.8	26.8	37.8	42.5	52.6
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	14.39	16.05	14.76	16.37	16.68	15.14	16.80	15.50	17.11	17.43
	3H	16.15	17.66	16.53	17.99	18.35	17.23	18.74	17.61	19.07	19.43
	4H	16.78	18.20	17.17	18.55	18.92	18.12	19.54	18.51	19.89	20.26
	6H	17.19	18.51	17.60	18.87	19.26	18.88	20.20	19.29	20.57	20.96
	8H	17.30	18.56	17.72	18.95	19.35	19.20	20.46	19.62	20.85	21.24
	12H	17.35	18.56	17.78	18.94	19.37	19.41	20.62	19.84	21.00	21.43
4H	2H	15.16	16.58	15.56	16.93	17.30	15.74	17.16	16.14	17.51	17.88
	3H	17.15	18.35	17.56	18.75	19.15	18.07	19.27	18.48	19.66	20.06
	4H	17.91	18.99	18.34	19.41	19.84	19.10	20.19	19.53	20.60	21.04
	6H	18.44	19.40	18.90	19.84	20.29	20.03	20.99	20.49	21.43	21.88
	8H	18.59	19.48	19.05	19.93	20.39	20.42	21.31	20.88	21.75	22.22
	12H	18.68	19.48	19.16	19.96	20.42	20.69	21.50	21.17	21.97	22.44
8H	4H	18.36	19.25	18.82	19.69	20.16	19.40	20.30	19.86	20.74	21.20
	6H	19.04	19.78	19.53	20.27	20.74	20.49	21.23	20.98	21.72	22.19
	8H	19.26	19.93	19.77	20.43	20.92	20.98	21.64	21.48	22.15	22.63
	12H	19.41	20.00	19.91	20.49	21.05	21.35	21.94	21.86	22.43	22.99
12H	4H	18.44	19.25	18.92	19.72	20.19	19.43	20.23	19.91	20.71	21.18
	6H	19.17	19.84	19.67	20.34	20.82	20.54	21.21	21.05	21.71	22.20
	8H	19.46	20.05	19.96	20.54	21.10	21.09	21.69	21.60	22.18	22.73