

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: P1589936

Luminaire Tested: 24CZSP-SB-65-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-65-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

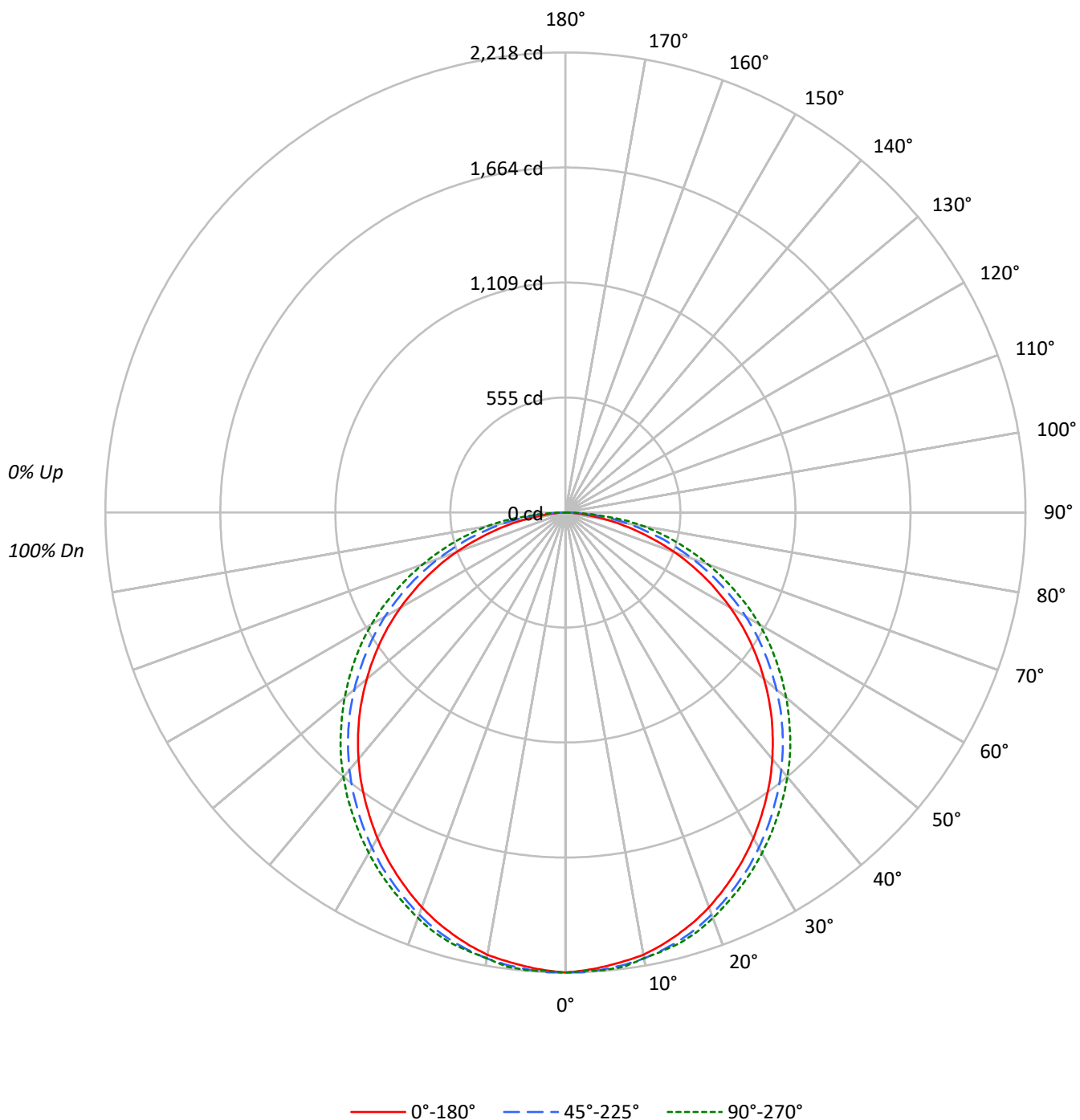
Lumens per Lamp: N/A
Luminaire Lumens: 6452.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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: 28.75 FT

TEST NUMBER: P1589936

CATALOG NUMBER: 24CZSP-SB-65-L840-S

Luminous Intensity Polar Plot



TEST NUMBER: P1589936

CATALOG NUMBER: 24CZSP-SB-65-L840-S

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	94	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	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	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	45	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3397	3397	3397
5°	3378	3397	3404
10°	3367	3396	3393
15°	3337	3385	3405
20°	3301	3362	3391
25°	3253	3328	3371
30°	3206	3299	3353
35°	3153	3267	3337
40°	3102	3239	3327
45°	3045	3205	3319
50°	2980	3165	3311
55°	2906	3125	3306
60°	2815	3078	3308
65°	2686	3013	3290
70°	2511	2921	3282
75°	2226	2809	3294
80°	1812	2669	3391
85°	1170	2464	2928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3437 cd/sqm

TEST NUMBER: P1589936

CATALOG NUMBER: 24CZSP-SB-65-L840-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.9	3.3
10°-20°	601.1	9.3
20°-30°	906.2	14.0
30°-40°	1090.4	16.9
40°-50°	1137.4	17.6
50°-60°	1042.6	16.2
60°-70°	818.7	12.7
70°-80°	498.3	7.7
80°-90°	147.4	2.3
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°	1717.2	26.6
0°-40°	2807.6	43.5
0°-60°	4987.6	77.3
0°-90°	6452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6452.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2218	2218	2218	2218	2218	
5°	2197	2211	2210	2207	2214	209
15°	2104	2125	2135	2138	2147	594
25°	1925	1952	1970	1982	1994	887
35°	1686	1713	1748	1772	1785	1055
45°	1406	1435	1480	1514	1532	1084
55°	1088	1116	1170	1217	1238	972
65°	741	769	831	887	908	733
75°	376	411	475	532	557	399
85°	67	94	140	157	167	87
90°	0	0	0	0	0	

TEST NUMBER: P1589936

CATALOG NUMBER: 24CZSP-SB-65-L840-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2209.6	2220.8	2218.0	2208.3	2212.4
5°	2197.2	2211.0	2209.6	2206.9	2213.8
7.5°	2181.9	2197.2	2198.5	2198.5	2206.9
10°	2165.2	2180.5	2183.3	2179.1	2181.9
12.5°	2137.5	2155.5	2161.1	2161.1	2165.2
15°	2104.2	2125.0	2134.7	2137.5	2147.2
17.5°	2068.1	2090.3	2102.8	2109.7	2118.0
20°	2025.0	2048.6	2062.5	2070.8	2080.6
22.5°	1976.5	2002.8	2018.1	2026.4	2037.5
25°	1925.1	1951.5	1969.5	1982.0	1994.5
27.5°	1871.0	1896.0	1920.9	1936.2	1947.3
30°	1812.7	1839.1	1865.4	1884.9	1896.0
32.5°	1750.2	1778.0	1808.5	1829.3	1841.8
35°	1686.4	1712.8	1747.5	1772.4	1784.9
37.5°	1621.1	1648.9	1685.0	1711.4	1726.6
40°	1551.7	1580.9	1619.8	1648.9	1664.2
42.5°	1479.6	1507.3	1550.4	1583.7	1601.7
45°	1406.0	1435.2	1479.6	1514.3	1532.3
47.5°	1329.7	1357.4	1406.0	1446.3	1461.5
50°	1250.6	1276.9	1328.3	1371.3	1389.4
52.5°	1170.1	1197.8	1249.2	1295.0	1314.4
55°	1088.2	1115.9	1170.1	1217.2	1238.1
57.5°	1004.9	1032.6	1088.2	1136.7	1161.7
60°	918.8	946.6	1004.9	1054.9	1079.8
62.5°	830.0	859.2	918.8	970.2	996.6
65°	741.2	768.9	831.4	886.9	907.7
67.5°	652.3	680.1	741.2	796.7	821.7
70°	560.7	592.7	652.3	710.6	732.8
72.5°	465.0	501.1	560.7	621.8	644.0
75°	376.1	410.8	474.7	531.6	556.6
77.5°	288.7	326.2	385.9	444.2	469.1
80°	205.4	241.5	302.6	358.1	384.5
82.5°	130.5	162.4	223.5	273.4	292.9
85°	66.6	94.4	140.2	156.8	166.6
87.5°	19.4	33.3	50.0	62.5	69.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589936

CATALOG NUMBER: 24CZSP-SB-65-L840-S

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	15.7	17.4	16.1	17.7	18.0	16.5	18.1	16.8	18.5	18.8
	3H	17.5	19.0	17.9	19.3	19.7	18.6	20.1	18.9	20.4	20.8
	4H	18.1	19.6	18.5	19.9	20.3	19.4	20.8	19.8	21.2	21.6
	6H	18.5	19.9	19.0	20.2	20.6	20.2	21.5	20.6	21.9	22.2
	8H	18.6	19.9	19.1	20.3	20.7	20.5	21.7	20.9	22.1	22.5
	12H	18.7	19.9	19.1	20.3	20.7	20.7	21.9	21.1	22.3	22.7
4H	2H	16.5	17.9	16.9	18.3	18.7	17.1	18.5	17.5	18.9	19.2
	3H	18.5	19.7	18.9	20.1	20.5	19.4	20.6	19.8	21.0	21.4
	4H	19.3	20.3	19.7	20.7	21.2	20.4	21.5	20.9	21.9	22.4
	6H	19.8	20.7	20.2	21.2	21.6	21.3	22.3	21.8	22.7	23.2
	8H	19.9	20.8	20.4	21.3	21.7	21.7	22.6	22.2	23.0	23.5
	12H	20.0	20.8	20.5	21.3	21.7	21.9	22.7	22.4	23.2	23.7
8H	4H	19.7	20.6	20.2	21.0	21.5	20.7	21.6	21.2	22.0	22.5
	6H	20.4	21.1	20.9	21.6	22.1	21.8	22.5	22.3	23.0	23.5
	8H	20.6	21.2	21.1	21.7	22.2	22.2	22.9	22.8	23.4	23.9
	12H	20.7	21.3	21.2	21.8	22.3	22.6	23.2	23.1	23.7	24.2
12H	4H	19.8	20.6	20.3	21.1	21.5	20.7	21.5	21.2	22.0	22.5
	6H	20.5	21.2	21.0	21.6	22.2	21.8	22.5	22.4	23.0	23.5
	8H	20.8	21.3	21.3	21.8	22.4	22.4	23.0	22.9	23.4	24.0

(END OF REPORT)