

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: P1589937

Luminaire Tested: 24CZSP-SB-65-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589937
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-65-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

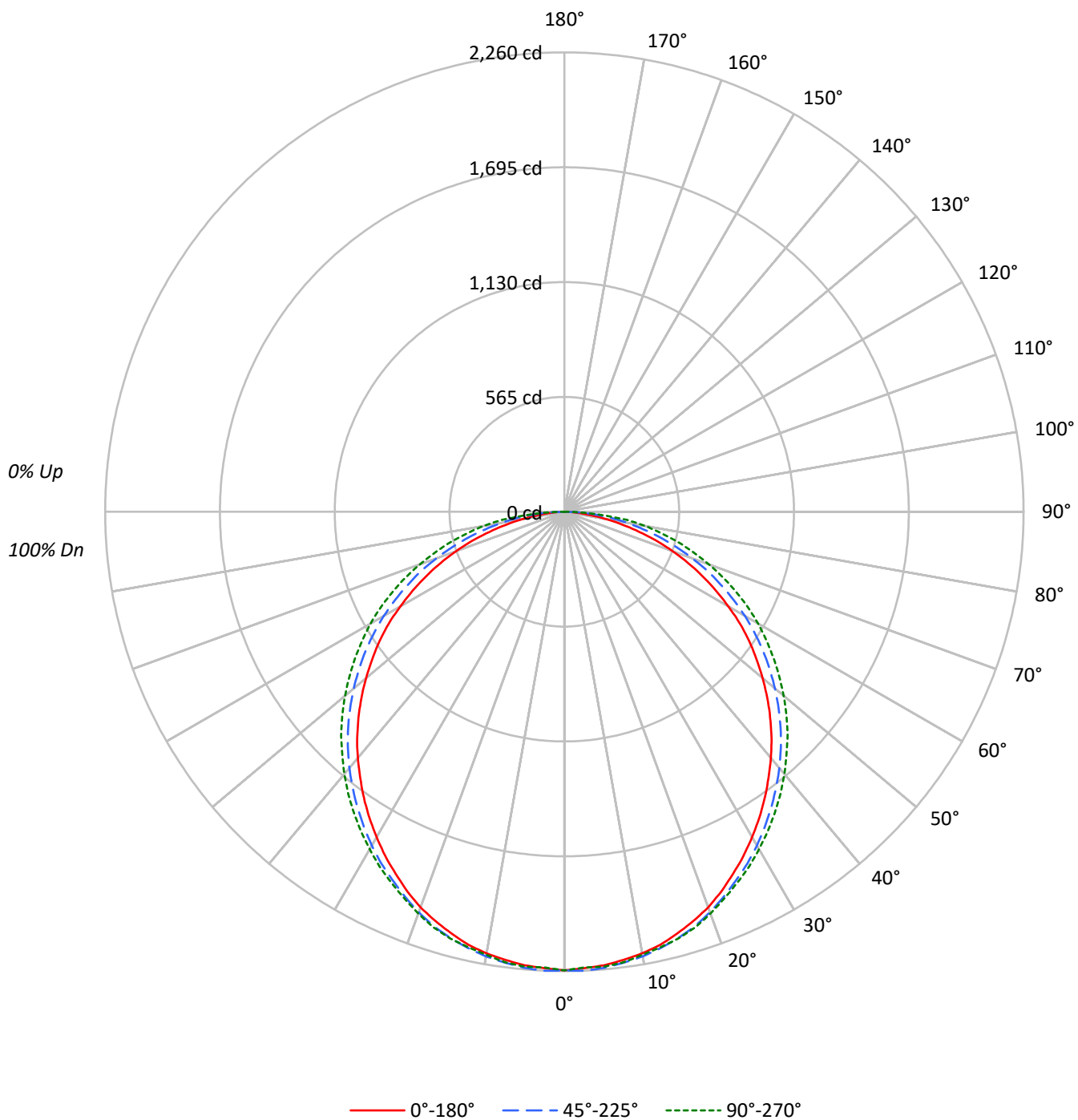
Lumens per Lamp: N/A
Luminaire Lumens: 6584.0 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1589937

CATALOG NUMBER: 24CZSP-SB-65-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1589937

CATALOG NUMBER: 24CZSP-SB-65-L840

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	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°	3456	3456	3456
5°	3443	3462	3454
10°	3431	3455	3442
15°	3405	3440	3445
20°	3375	3416	3427
25°	3320	3379	3403
30°	3268	3352	3389
35°	3215	3319	3377
40°	3162	3290	3368
45°	3103	3260	3366
50°	3035	3224	3357
55°	2966	3189	3356
60°	2856	3142	3377
65°	2722	3081	3379
70°	2540	2995	3389
75°	2259	2886	3447
80°	1856	2765	3577
85°	1225	2596	3232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3662 cd/sqm

TEST NUMBER: P1589937

CATALOG NUMBER: 24CZSP-SB-65-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	3.2
10°-20°	610.9	9.3
20°-30°	920.7	14.0
30°-40°	1108.8	16.8
40°-50°	1158.4	17.6
50°-60°	1064.2	16.2
60°-70°	838.1	12.7
70°-80°	513.8	7.8
80°-90°	155.8	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°	1745.0	26.5
0°-40°	2853.8	43.3
0°-60°	5076.4	77.1
0°-90°	6584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2239	2244	2252	2249	2246	213
15°	2147	2156	2170	2178	2172	606
25°	1965	1977	2000	2021	2014	906
35°	1720	1742	1775	1807	1806	1076
45°	1432	1463	1505	1547	1554	1105
55°	1111	1143	1194	1246	1257	991
65°	751	790	850	907	932	743
75°	382	426	488	546	582	406
85°	70	103	148	164	184	90
90°	0	0	0	0	0	

TEST NUMBER: P1589937

CATALOG NUMBER: 24CZSP-SB-65-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2256.1	2256.1	2256.1	2256.1	2256.1
2.5°	2247.7	2253.3	2260.3	2249.1	2243.5
5°	2239.4	2243.5	2251.9	2249.1	2246.3
7.5°	2224.0	2226.8	2238.0	2238.0	2235.2
10°	2205.9	2211.5	2221.2	2219.8	2212.9
12.5°	2182.2	2186.4	2197.5	2197.5	2193.4
15°	2147.4	2155.7	2169.7	2178.0	2172.5
17.5°	2111.1	2119.5	2137.6	2146.0	2143.2
20°	2070.7	2077.7	2095.8	2108.4	2102.8
22.5°	2020.6	2028.9	2049.8	2063.8	2058.2
25°	1964.8	1977.4	1999.7	2020.6	2013.6
27.5°	1909.1	1923.0	1950.9	1971.8	1969.0
30°	1847.8	1865.9	1895.2	1921.6	1916.1
32.5°	1785.1	1806.0	1836.6	1864.5	1863.1
35°	1719.6	1741.9	1775.3	1807.4	1806.0
37.5°	1649.9	1676.4	1711.2	1746.1	1747.4
40°	1581.6	1606.7	1645.7	1683.3	1684.7
42.5°	1509.2	1535.6	1577.4	1616.5	1617.9
45°	1432.5	1463.2	1505.0	1546.8	1553.8
47.5°	1354.5	1386.5	1429.7	1474.3	1482.7
50°	1273.7	1307.1	1353.1	1400.5	1408.8
52.5°	1191.4	1226.3	1273.7	1321.0	1333.6
55°	1110.6	1142.7	1194.2	1245.8	1256.9
57.5°	1025.6	1054.9	1110.6	1165.0	1178.9
60°	932.3	968.5	1025.6	1080.0	1102.3
62.5°	841.7	880.7	939.2	993.6	1018.6
65°	751.1	790.1	850.0	907.2	932.3
67.5°	659.1	699.5	763.6	818.0	845.9
70°	567.2	607.6	668.9	727.4	756.7
72.5°	475.2	518.4	578.3	638.2	667.5
75°	381.8	426.4	487.7	546.3	582.5
77.5°	294.0	337.2	398.5	458.5	489.1
80°	210.4	253.6	313.5	373.5	405.5
82.5°	133.8	174.2	232.7	282.9	312.1
85°	69.7	103.1	147.7	164.4	183.9
87.5°	20.9	40.4	57.1	64.1	79.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589937

CATALOG NUMBER: 24CZSP-SB-65-L840

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	15.8	17.5	16.2	17.8	18.1	16.6	18.2	16.9	18.5	18.9
	3H	17.6	19.1	18.0	19.4	19.8	18.7	20.2	19.0	20.5	20.9
	4H	18.2	19.6	18.6	20.0	20.4	19.5	21.0	19.9	21.3	21.7
	6H	18.6	19.9	19.0	20.3	20.7	20.3	21.6	20.7	22.0	22.4
	8H	18.7	20.0	19.2	20.4	20.8	20.6	21.9	21.0	22.3	22.7
	12H	18.8	20.0	19.2	20.4	20.8	20.8	22.0	21.3	22.4	22.9
4H	2H	16.6	18.0	17.0	18.4	18.7	17.2	18.6	17.6	18.9	19.3
	3H	18.6	19.8	19.0	20.2	20.6	19.5	20.7	19.9	21.1	21.5
	4H	19.3	20.4	19.8	20.8	21.3	20.5	21.6	21.0	22.0	22.5
	6H	19.9	20.8	20.3	21.3	21.7	21.5	22.4	21.9	22.9	23.3
	8H	20.0	20.9	20.5	21.4	21.8	21.8	22.7	22.3	23.2	23.6
	12H	20.1	20.9	20.6	21.4	21.9	22.1	22.9	22.6	23.4	23.9
8H	4H	19.8	20.7	20.2	21.1	21.6	20.8	21.7	21.3	22.2	22.6
	6H	20.5	21.2	21.0	21.7	22.2	21.9	22.7	22.4	23.1	23.6
	8H	20.7	21.4	21.2	21.9	22.3	22.4	23.1	22.9	23.6	24.1
	12H	20.8	21.4	21.3	21.9	22.5	22.8	23.4	23.3	23.9	24.4
12H	4H	19.9	20.7	20.4	21.2	21.6	20.9	21.7	21.3	22.1	22.6
	6H	20.6	21.3	21.1	21.7	22.3	22.0	22.7	22.5	23.1	23.7
	8H	20.9	21.5	21.4	22.0	22.5	22.5	23.1	23.0	23.6	24.2

(END OF REPORT)