

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: P1589957

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589957
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-65VHE-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 7000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

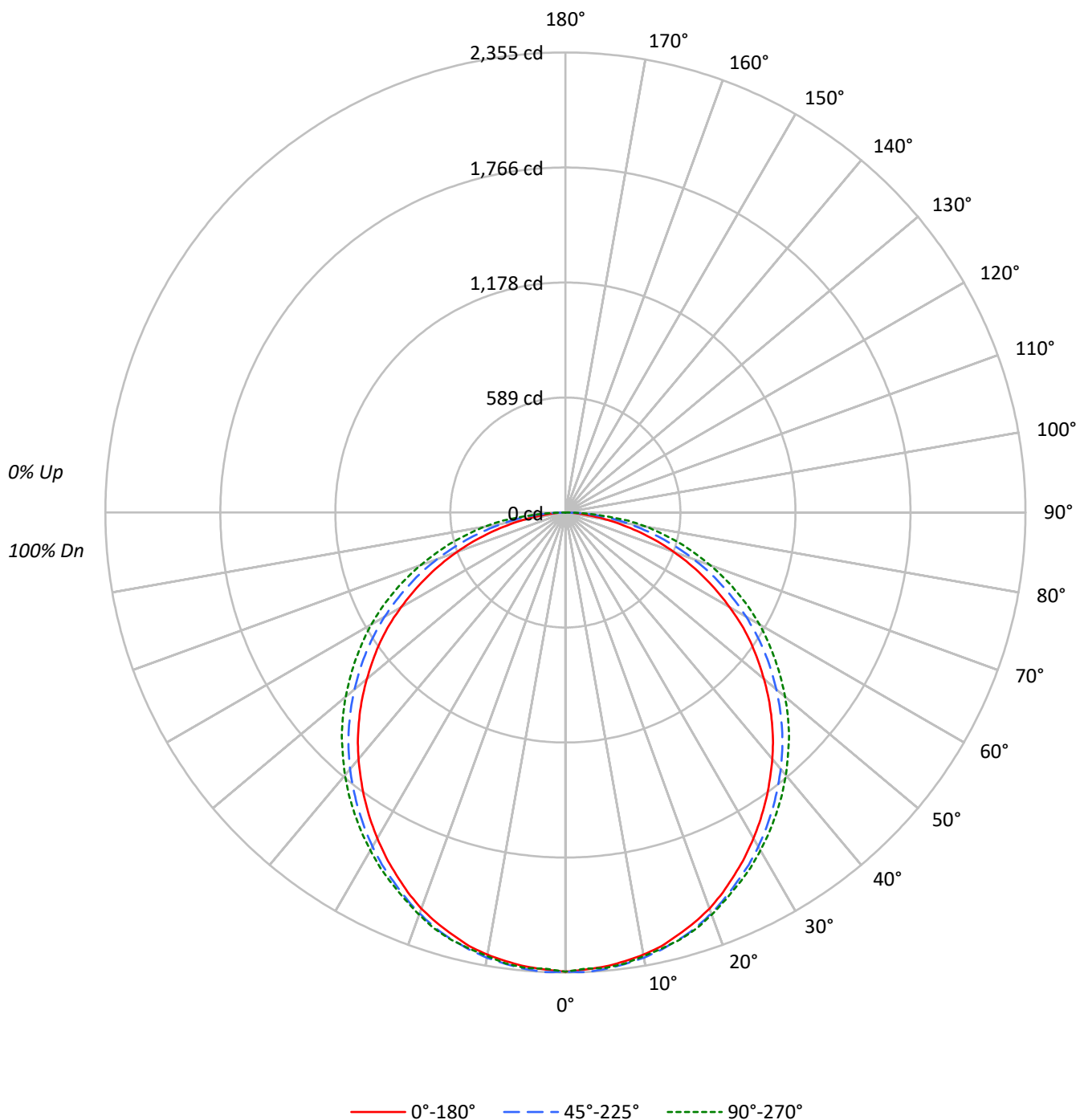
Lumens per Lamp: N/A
Luminaire Lumens: 6860.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 50.1
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: P1589957

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

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	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°	3600	3600	3600
5°	3587	3607	3598
10°	3575	3599	3586
15°	3548	3585	3589
20°	3517	3559	3571
25°	3460	3521	3546
30°	3405	3492	3531
35°	3350	3459	3518
40°	3295	3428	3510
45°	3233	3397	3507
50°	3162	3359	3498
55°	3090	3323	3497
60°	2975	3273	3518
65°	2836	3210	3520
70°	2646	3121	3531
75°	2354	3007	3591
80°	1933	2882	3727
85°	1276	2705	3369

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3816 cd/sqm

TEST NUMBER: P1589957

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.4	3.2
10°-20°	636.5	9.3
20°-30°	959.3	14.0
30°-40°	1155.2	16.8
40°-50°	1206.9	17.6
50°-60°	1108.8	16.2
60°-70°	873.2	12.7
70°-80°	535.3	7.8
80°-90°	162.3	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°	1818.1	26.5
0°-40°	2973.4	43.3
0°-60°	5289.2	77.1
0°-90°	6860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2351	2351	2351	2351	2351	
5°	2333	2338	2346	2343	2340	222
15°	2237	2246	2261	2269	2264	631
25°	2047	2060	2084	2105	2098	944
35°	1792	1815	1850	1883	1882	1121
45°	1493	1524	1568	1612	1619	1151
55°	1157	1191	1244	1298	1310	1032
65°	783	823	886	945	971	774
75°	398	444	508	569	607	423
85°	73	107	154	171	192	93
90°	0	0	0	0	0	

TEST NUMBER: P1589957

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2350.6	2350.6	2350.6	2350.6	2350.6
2.5°	2341.9	2347.7	2355.0	2343.4	2337.6
5°	2333.2	2337.6	2346.3	2343.4	2340.5
7.5°	2317.3	2320.2	2331.8	2331.8	2328.9
10°	2298.4	2304.2	2314.3	2312.9	2305.6
12.5°	2273.7	2278.1	2289.7	2289.7	2285.3
15°	2237.4	2246.1	2260.6	2269.3	2263.5
17.5°	2199.6	2208.4	2227.2	2235.9	2233.0
20°	2157.5	2164.8	2183.7	2196.7	2190.9
22.5°	2105.3	2114.0	2135.8	2150.3	2144.5
25°	2047.2	2060.3	2083.5	2105.3	2098.0
27.5°	1989.1	2003.6	2032.7	2054.5	2051.6
30°	1925.2	1944.1	1974.6	2002.2	1996.4
32.5°	1859.9	1881.7	1913.6	1942.7	1941.2
35°	1791.7	1814.9	1849.7	1883.1	1881.7
37.5°	1719.1	1746.7	1782.9	1819.2	1820.7
40°	1647.9	1674.1	1714.7	1753.9	1755.4
42.5°	1572.4	1600.0	1643.6	1684.2	1685.7
45°	1492.6	1524.5	1568.1	1611.6	1618.9
47.5°	1411.3	1444.7	1489.7	1536.1	1544.8
50°	1327.0	1361.9	1409.8	1459.2	1467.9
52.5°	1241.4	1277.7	1327.0	1376.4	1389.5
55°	1157.2	1190.6	1244.3	1298.0	1309.6
57.5°	1068.6	1099.1	1157.2	1213.8	1228.3
60°	971.3	1009.1	1068.6	1125.2	1148.5
62.5°	877.0	917.6	978.6	1035.2	1061.3
65°	782.6	823.2	885.7	945.2	971.3
67.5°	686.8	728.9	795.6	852.3	881.3
70°	590.9	633.0	696.9	757.9	788.4
72.5°	495.1	540.1	602.5	665.0	695.5
75°	397.8	444.3	508.2	569.1	606.9
77.5°	306.4	351.4	415.2	477.7	509.6
80°	219.2	264.2	326.7	389.1	422.5
82.5°	139.4	181.5	242.5	294.7	325.2
85°	72.6	107.4	153.9	171.3	191.7
87.5°	21.8	42.1	59.5	66.8	82.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589957

CATALOG NUMBER: 24CZSP-SB-65VHE-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	16.0	17.6	16.3	17.9	18.3	16.7	18.4	17.1	18.7	19.0
	3H	17.7	19.2	18.1	19.6	19.9	18.8	20.3	19.2	20.6	21.0
	4H	18.4	19.8	18.7	20.1	20.5	19.7	21.1	20.1	21.5	21.8
	6H	18.8	20.1	19.2	20.4	20.8	20.5	21.8	20.9	22.1	22.5
	8H	18.9	20.1	19.3	20.5	20.9	20.8	22.0	21.2	22.4	22.8
	12H	18.9	20.1	19.4	20.5	20.9	21.0	22.2	21.4	22.6	23.0
4H	2H	16.7	18.2	17.1	18.5	18.9	17.3	18.7	17.7	19.1	19.5
	3H	18.7	19.9	19.1	20.3	20.7	19.6	20.8	20.1	21.2	21.6
	4H	19.5	20.6	19.9	21.0	21.4	20.7	21.8	21.1	22.2	22.6
	6H	20.0	21.0	20.5	21.4	21.9	21.6	22.6	22.1	23.0	23.5
	8H	20.2	21.1	20.6	21.5	22.0	22.0	22.9	22.5	23.3	23.8
	12H	20.3	21.1	20.7	21.5	22.0	22.3	23.1	22.7	23.5	24.0
8H	4H	19.9	20.8	20.4	21.3	21.7	21.0	21.9	21.4	22.3	22.8
	6H	20.6	21.4	21.1	21.8	22.3	22.1	22.8	22.6	23.3	23.8
	8H	20.8	21.5	21.3	22.0	22.5	22.5	23.2	23.1	23.7	24.2
	12H	21.0	21.6	21.5	22.1	22.6	22.9	23.5	23.4	24.0	24.6
12H	4H	20.0	20.8	20.5	21.3	21.8	21.0	21.8	21.5	22.3	22.8
	6H	20.8	21.4	21.3	21.9	22.4	22.1	22.8	22.6	23.3	23.8
	8H	21.0	21.6	21.5	22.1	22.7	22.7	23.3	23.2	23.7	24.3

(END OF REPORT)