

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: P1590017

Luminaire Tested: 24CZSP-SB-75VHE-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590017
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-75VHE-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

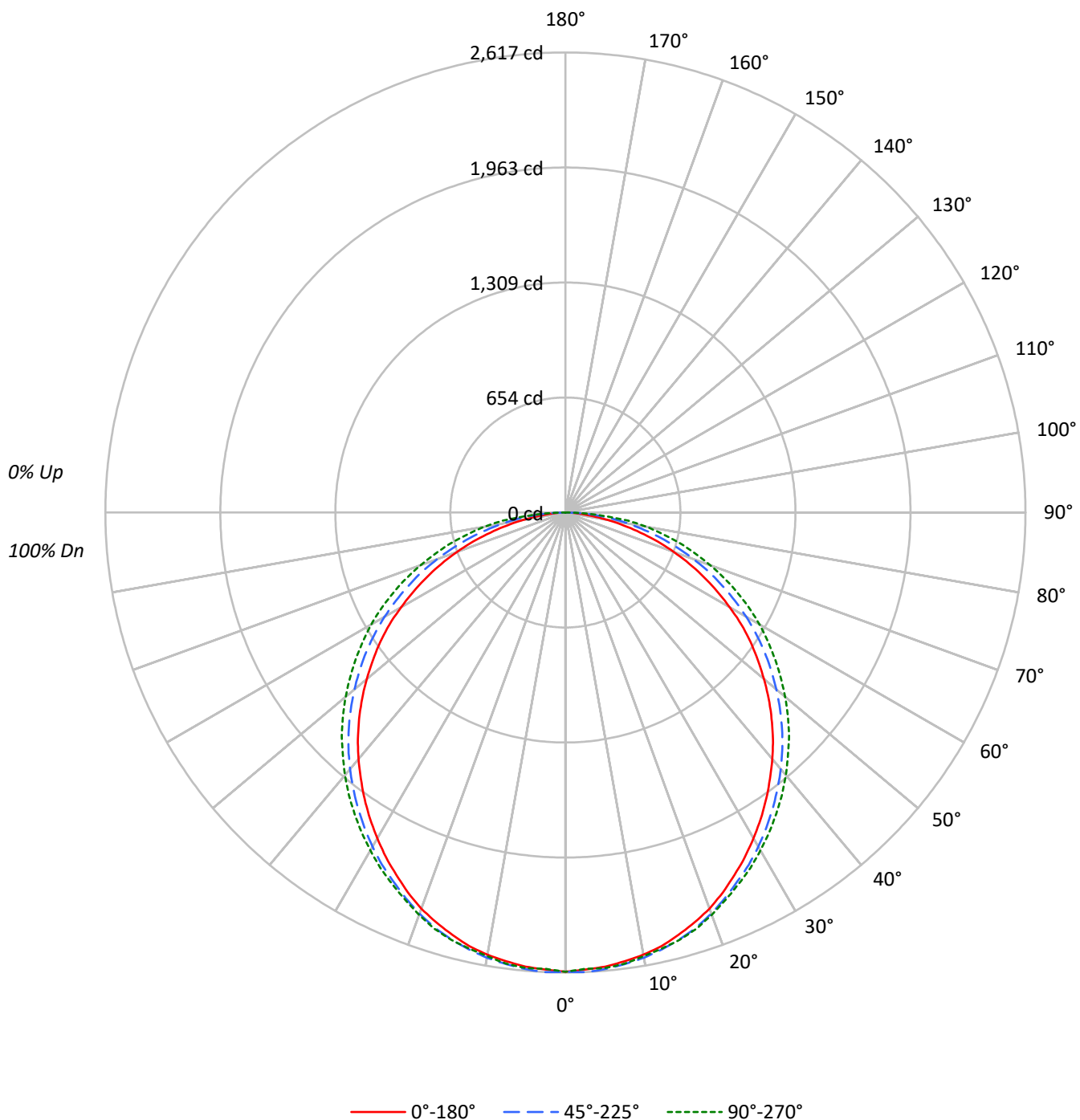
Lumens per Lamp: N/A
Luminaire Lumens: 7624.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.9
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: P1590017

CATALOG NUMBER: 24CZSP-SB-75VHE-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1590017

CATALOG NUMBER: 24CZSP-SB-75VHE-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°	4001	4001	4001
5°	3987	4009	3999
10°	3973	4000	3985
15°	3943	3984	3989
20°	3908	3956	3969
25°	3845	3913	3940
30°	3784	3881	3924
35°	3723	3844	3910
40°	3662	3810	3901
45°	3593	3775	3897
50°	3514	3733	3887
55°	3434	3693	3887
60°	3307	3638	3910
65°	3152	3567	3912
70°	2941	3468	3924
75°	2616	3342	3992
80°	2150	3203	4142
85°	1418	3005	3743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4241 cd/sqm

TEST NUMBER: P1590017

CATALOG NUMBER: 24CZSP-SB-75VHE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	3.2
10°-20°	707.3	9.3
20°-30°	1066.1	14.0
30°-40°	1283.9	16.8
40°-50°	1341.4	17.6
50°-60°	1232.3	16.2
60°-70°	970.4	12.7
70°-80°	595.0	7.8
80°-90°	180.4	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°	2020.6	26.5
0°-40°	3304.5	43.3
0°-60°	5878.2	77.1
0°-90°	7624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2612	2612	2612	2612	2612	
5°	2593	2598	2608	2604	2601	246
15°	2487	2496	2512	2522	2516	702
25°	2275	2290	2316	2340	2332	1049
35°	1991	2017	2056	2093	2091	1245
45°	1659	1694	1743	1791	1799	1279
55°	1286	1323	1383	1443	1456	1147
65°	870	915	984	1050	1080	860
75°	442	494	565	632	674	470
85°	81	119	171	190	213	104
90°	0	0	0	0	0	

TEST NUMBER: P1590017

CATALOG NUMBER: 24CZSP-SB-75VHE-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2612.4	2612.4	2612.4	2612.4	2612.4
2.5°	2602.8	2609.2	2617.3	2604.4	2597.9
5°	2593.1	2597.9	2607.6	2604.4	2601.1
7.5°	2575.3	2578.6	2591.5	2591.5	2588.2
10°	2554.3	2560.8	2572.1	2570.5	2562.4
12.5°	2526.9	2531.8	2544.7	2544.7	2539.8
15°	2486.6	2496.3	2512.4	2522.1	2515.6
17.5°	2444.6	2454.3	2475.3	2485.0	2481.7
20°	2397.8	2405.9	2426.9	2441.4	2434.9
22.5°	2339.7	2349.4	2373.6	2389.8	2383.3
25°	2275.2	2289.7	2315.5	2339.7	2331.7
27.5°	2210.6	2226.8	2259.1	2283.3	2280.0
30°	2139.7	2160.6	2194.5	2225.2	2218.7
32.5°	2067.0	2091.2	2126.7	2159.0	2157.4
35°	1991.2	2017.0	2055.7	2092.9	2091.2
37.5°	1910.5	1941.2	1981.5	2021.9	2023.5
40°	1831.5	1860.5	1905.7	1949.2	1950.9
42.5°	1747.5	1778.2	1826.6	1871.8	1873.4
45°	1658.8	1694.3	1742.7	1791.1	1799.2
47.5°	1568.4	1605.5	1655.6	1707.2	1716.9
50°	1474.8	1513.6	1566.8	1621.7	1631.4
52.5°	1379.6	1420.0	1474.8	1529.7	1544.2
55°	1286.0	1323.2	1382.9	1442.6	1455.5
57.5°	1187.6	1221.5	1286.0	1349.0	1365.1
60°	1079.5	1121.5	1187.6	1250.6	1276.4
62.5°	974.6	1019.8	1087.6	1150.5	1179.6
65°	869.7	914.9	984.3	1050.5	1079.5
67.5°	763.2	810.0	884.3	947.2	979.5
70°	656.7	703.5	774.5	842.3	876.2
72.5°	550.2	600.3	669.6	739.0	772.9
75°	442.1	493.8	564.8	632.5	674.5
77.5°	340.5	390.5	461.5	530.9	566.4
80°	243.7	293.7	363.1	432.4	469.6
82.5°	154.9	201.7	269.5	327.6	361.4
85°	80.7	119.4	171.0	190.4	213.0
87.5°	24.2	46.8	66.2	74.2	92.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590017

CATALOG NUMBER: 24CZSP-SB-75VHE-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	16.3	18.0	16.7	18.3	18.6	17.1	18.7	17.4	19.1	19.4
	3H	18.1	19.6	18.5	19.9	20.3	19.2	20.7	19.5	21.0	21.4
	4H	18.7	20.1	19.1	20.5	20.9	20.1	21.5	20.5	21.8	22.2
	6H	19.1	20.5	19.5	20.8	21.2	20.8	22.1	21.2	22.5	22.9
	8H	19.2	20.5	19.7	20.9	21.3	21.1	22.4	21.6	22.8	23.2
	12H	19.3	20.5	19.7	20.9	21.3	21.3	22.6	21.8	22.9	23.4
4H	2H	17.1	18.5	17.5	18.9	19.2	17.7	19.1	18.1	19.5	19.8
	3H	19.1	20.3	19.5	20.7	21.1	20.0	21.2	20.4	21.6	22.0
	4H	19.8	20.9	20.3	21.3	21.8	21.0	22.1	21.5	22.5	23.0
	6H	20.4	21.3	20.8	21.8	22.2	22.0	22.9	22.4	23.4	23.8
	8H	20.5	21.4	21.0	21.9	22.3	22.4	23.3	22.8	23.7	24.2
	12H	20.6	21.4	21.1	21.9	22.4	22.6	23.4	23.1	23.9	24.4
8H	4H	20.3	21.2	20.8	21.6	22.1	21.3	22.2	21.8	22.7	23.1
	6H	21.0	21.7	21.5	22.2	22.7	22.4	23.2	22.9	23.7	24.1
	8H	21.2	21.9	21.7	22.4	22.9	22.9	23.6	23.4	24.1	24.6
	12H	21.3	21.9	21.9	22.4	23.0	23.3	23.9	23.8	24.4	24.9
12H	4H	20.4	21.2	20.9	21.7	22.1	21.4	22.2	21.9	22.6	23.1
	6H	21.1	21.8	21.6	22.3	22.8	22.5	23.2	23.0	23.6	24.2
	8H	21.4	22.0	21.9	22.5	23.0	23.0	23.6	23.5	24.1	24.7

(END OF REPORT)