

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: P1590018

Luminaire Tested: 24CZSP-SB-75VHE-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590018
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-75VHE-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

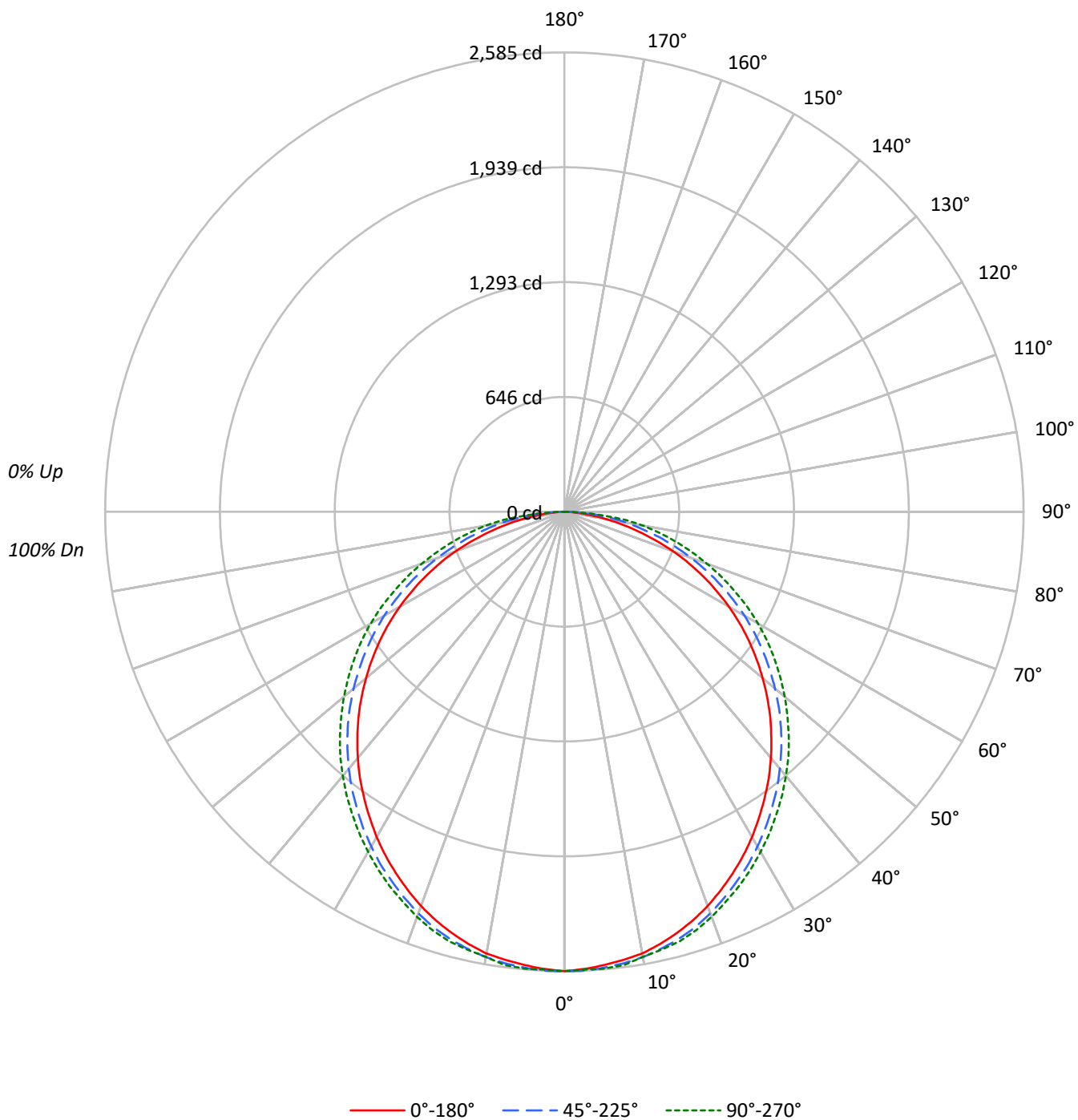
Lumens per Lamp: N/A
Luminaire Lumens: 7520.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1590018

CATALOG NUMBER: 24CZSP-SB-75VHE-L845-S

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	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°	3959	3959	3959
5°	3937	3960	3967
10°	3925	3958	3955
15°	3889	3945	3968
20°	3847	3918	3953
25°	3792	3879	3929
30°	3736	3845	3908
35°	3675	3808	3890
40°	3616	3775	3878
45°	3549	3735	3869
50°	3473	3689	3858
55°	3387	3641	3853
60°	3280	3588	3855
65°	3131	3512	3834
70°	2927	3405	3825
75°	2594	3274	3839
80°	2112	3111	3952
85°	1365	2871	3411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4005 cd/sqm

TEST NUMBER: P1590018

CATALOG NUMBER: 24CZSP-SB-75VHE-L845-S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.6	3.3
10°-20°	700.6	9.3
20°-30°	1056.3	14.0
30°-40°	1270.9	16.9
40°-50°	1325.7	17.6
50°-60°	1215.1	16.2
60°-70°	954.2	12.7
70°-80°	580.8	7.7
80°-90°	171.8	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°	2001.4	26.6
0°-40°	3272.4	43.5
0°-60°	5813.2	77.3
0°-90°	7520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7520.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2585	2585	2585	2585	2585	
5°	2561	2577	2575	2572	2580	243
15°	2452	2477	2488	2491	2503	692
25°	2244	2274	2296	2310	2325	1034
35°	1966	1996	2037	2066	2080	1230
45°	1639	1673	1724	1765	1786	1264
55°	1268	1301	1364	1419	1443	1133
65°	864	896	969	1034	1058	854
75°	438	479	553	620	649	465
85°	78	110	163	183	194	101
90°	0	0	0	0	0	

TEST NUMBER: P1590018

CATALOG NUMBER: 24CZSP-SB-75VHE-L845-S

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2585.1	2585.1	2585.1	2585.1	2585.1
2.5°	2575.4	2588.4	2585.1	2573.8	2578.6
5°	2560.8	2577.0	2575.4	2572.2	2580.3
7.5°	2543.1	2560.8	2562.5	2562.5	2572.2
10°	2523.6	2541.4	2544.7	2539.8	2543.1
12.5°	2491.3	2512.3	2518.8	2518.8	2523.6
15°	2452.5	2476.7	2488.1	2491.3	2502.6
17.5°	2410.4	2436.3	2450.8	2458.9	2468.6
20°	2360.3	2387.8	2403.9	2413.6	2425.0
22.5°	2303.6	2334.4	2352.2	2361.9	2374.8
25°	2243.8	2274.5	2295.5	2310.1	2324.7
27.5°	2180.7	2209.8	2238.9	2256.7	2269.7
30°	2112.7	2143.5	2174.2	2196.9	2209.8
32.5°	2039.9	2072.3	2107.9	2132.2	2146.7
35°	1965.5	1996.3	2036.7	2065.8	2080.4
37.5°	1889.5	1921.9	1963.9	1994.6	2012.4
40°	1808.6	1842.6	1887.9	1921.9	1939.6
42.5°	1724.5	1756.8	1807.0	1845.8	1866.8
45°	1638.7	1672.7	1724.5	1764.9	1786.0
47.5°	1549.8	1582.1	1638.7	1685.7	1703.5
50°	1457.6	1488.3	1548.2	1598.3	1619.3
52.5°	1363.7	1396.1	1455.9	1509.3	1532.0
55°	1268.3	1300.6	1363.7	1418.7	1443.0
57.5°	1171.2	1203.6	1268.3	1324.9	1354.0
60°	1070.9	1103.3	1171.2	1229.5	1258.6
62.5°	967.4	1001.4	1070.9	1130.8	1161.5
65°	863.9	896.2	969.0	1033.7	1058.0
67.5°	760.3	792.7	863.9	928.6	957.7
70°	653.6	690.8	760.3	828.3	854.2
72.5°	541.9	584.0	653.6	724.7	750.6
75°	438.4	478.8	553.3	619.6	648.7
77.5°	336.5	380.2	449.7	517.7	546.8
80°	239.4	281.5	352.7	417.4	448.1
82.5°	152.1	189.3	260.5	318.7	341.3
85°	77.7	110.0	163.4	182.8	194.1
87.5°	22.6	38.8	58.2	72.8	80.9
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590018

CATALOG NUMBER: 24CZSP-SB-75VHE-L845-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	16.3	17.9	16.6	18.3	18.6	17.0	18.7	17.4	19.0	19.3
	3H	18.0	19.6	18.4	19.9	20.2	19.1	20.6	19.5	20.9	21.3
	4H	18.7	20.1	19.1	20.4	20.8	20.0	21.4	20.4	21.7	22.1
	6H	19.1	20.4	19.5	20.8	21.1	20.7	22.0	21.1	22.4	22.8
	8H	19.2	20.4	19.6	20.8	21.2	21.0	22.3	21.4	22.6	23.0
	12H	19.2	20.4	19.7	20.8	21.2	21.2	22.4	21.6	22.8	23.2
4H	2H	17.0	18.5	17.4	18.8	19.2	17.6	19.0	18.0	19.4	19.8
	3H	19.0	20.2	19.4	20.6	21.0	19.9	21.1	20.3	21.5	21.9
	4H	19.8	20.9	20.2	21.3	21.7	21.0	22.0	21.4	22.4	22.9
	6H	20.3	21.3	20.8	21.7	22.2	21.9	22.8	22.3	23.2	23.7
	8H	20.5	21.3	20.9	21.8	22.2	22.2	23.1	22.7	23.6	24.0
	12H	20.5	21.3	21.0	21.8	22.3	22.5	23.3	23.0	23.8	24.2
8H	4H	20.2	21.1	20.7	21.6	22.0	21.2	22.1	21.7	22.6	23.0
	6H	20.9	21.6	21.4	22.1	22.6	22.3	23.0	22.8	23.5	24.0
	8H	21.1	21.8	21.6	22.3	22.8	22.8	23.4	23.3	23.9	24.4
	12H	21.2	21.8	21.7	22.3	22.9	23.1	23.7	23.6	24.2	24.8
12H	4H	20.3	21.1	20.8	21.6	22.1	21.3	22.1	21.8	22.6	23.0
	6H	21.0	21.7	21.5	22.2	22.7	22.4	23.0	22.9	23.5	24.0
	8H	21.3	21.9	21.8	22.4	22.9	22.9	23.5	23.4	24.0	24.5

(END OF REPORT)