

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: P1589879

Luminaire Tested: 24CZSP-SB-57HE-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589879
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-57HE-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

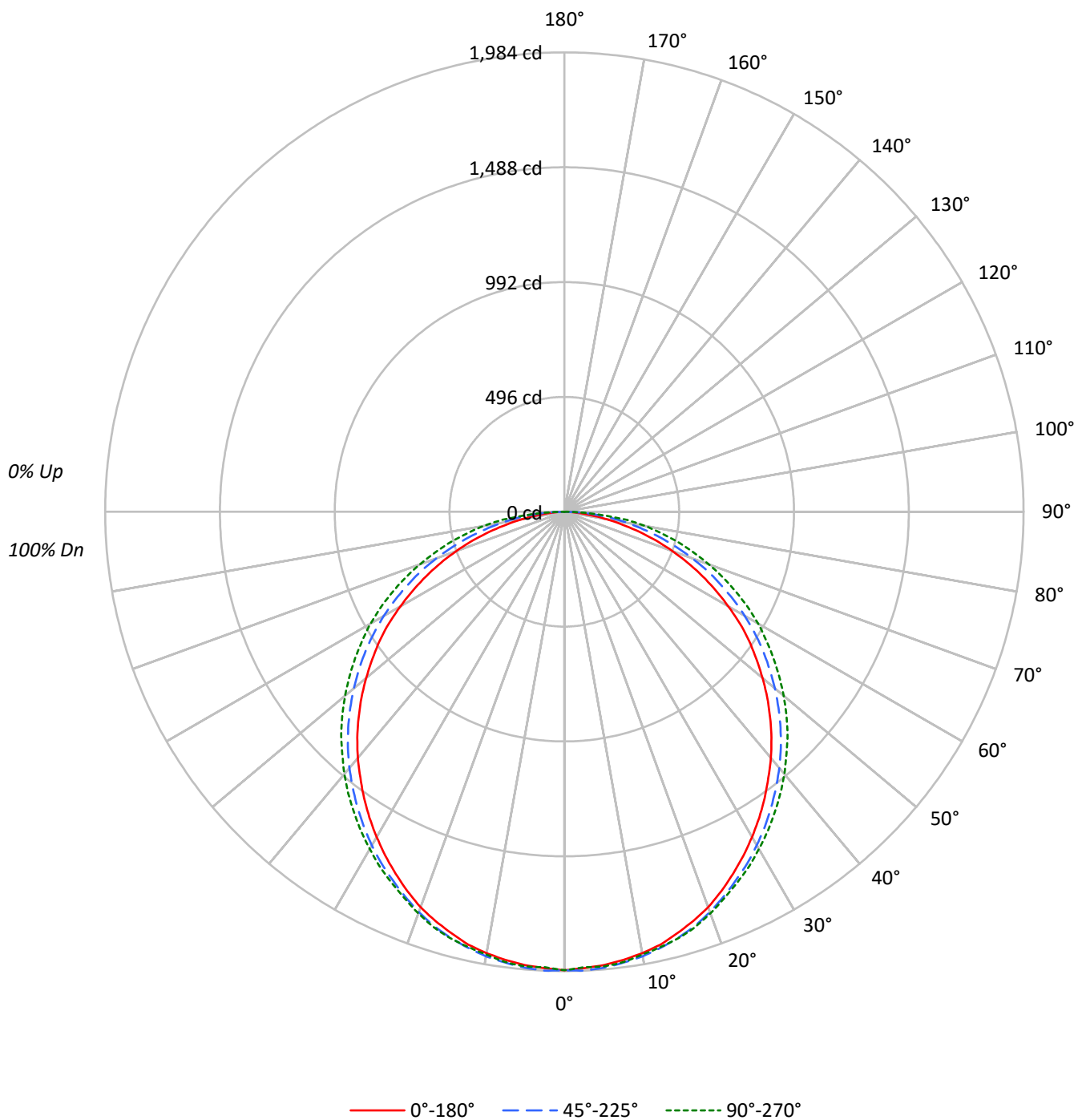
Lumens per Lamp: N/A
Luminaire Lumens: 5778.0 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 39.4
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: P1589879

CATALOG NUMBER: 24CZSP-SB-57HE-L845

Luminous Intensity Polar Plot



TEST NUMBER: P1589879

CATALOG NUMBER: 24CZSP-SB-57HE-L845

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	93	90		93	90	88		89
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78
3	89	79	70	63	87	77	69	63	74	67	62		71	65	61		69
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	26	37	30	25		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3032	3032	3032
5°	3021	3038	3031
10°	3011	3032	3020
15°	2988	3019	3023
20°	2962	2998	3008
25°	2914	2966	2986
30°	2868	2941	2974
35°	2822	2913	2963
40°	2775	2888	2956
45°	2723	2861	2953
50°	2663	2829	2946
55°	2603	2798	2946
60°	2506	2757	2963
65°	2389	2704	2965
70°	2229	2629	2974
75°	1983	2533	3025
80°	1629	2427	3139
85°	1074	2278	2836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3214 cd/sqm

TEST NUMBER: P1589879

CATALOG NUMBER: 24CZSP-SB-57HE-L845

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	3.2
10°-20°	536.1	9.3
20°-30°	808.0	14.0
30°-40°	973.0	16.8
40°-50°	1016.6	17.6
50°-60°	933.9	16.2
60°-70°	735.5	12.7
70°-80°	450.9	7.8
80°-90°	136.7	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°	1531.4	26.5
0°-40°	2504.4	43.3
0°-60°	4454.9	77.1
0°-90°	5778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1965	1969	1976	1974	1971	187
15°	1884	1892	1904	1911	1906	532
25°	1724	1735	1755	1773	1767	795
35°	1509	1529	1558	1586	1585	944
45°	1257	1284	1321	1357	1364	970
55°	975	1003	1048	1093	1103	870
65°	659	693	746	796	818	652
75°	335	374	428	479	511	356
85°	61	90	130	144	161	79
90°	0	0	0	0	0	

TEST NUMBER: P1589879

CATALOG NUMBER: 24CZSP-SB-57HE-L845

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1979.9	1979.9	1979.9	1979.9	1979.9
2.5°	1972.6	1977.4	1983.6	1973.8	1968.9
5°	1965.2	1968.9	1976.2	1973.8	1971.3
7.5°	1951.8	1954.2	1964.0	1964.0	1961.5
10°	1935.9	1940.8	1949.3	1948.1	1942.0
12.5°	1915.1	1918.7	1928.5	1928.5	1924.9
15°	1884.5	1891.8	1904.1	1911.4	1906.5
17.5°	1852.7	1860.0	1875.9	1883.3	1880.8
20°	1817.2	1823.4	1839.3	1850.3	1845.4
22.5°	1773.2	1780.6	1798.9	1811.1	1806.2
25°	1724.3	1735.3	1754.9	1773.2	1767.1
27.5°	1675.4	1687.6	1712.1	1730.4	1728.0
30°	1621.6	1637.5	1663.2	1686.4	1681.5
32.5°	1566.5	1584.9	1611.8	1636.3	1635.0
35°	1509.1	1528.6	1558.0	1586.1	1584.9
37.5°	1447.9	1471.2	1501.7	1532.3	1533.5
40°	1388.0	1410.0	1444.3	1477.3	1478.5
42.5°	1324.4	1347.6	1384.3	1418.6	1419.8
45°	1257.2	1284.1	1320.7	1357.4	1363.5
47.5°	1188.7	1216.8	1254.7	1293.8	1301.2
50°	1117.7	1147.1	1187.4	1229.0	1236.4
52.5°	1045.6	1076.2	1117.7	1159.3	1170.3
55°	974.7	1002.8	1048.0	1093.3	1103.1
57.5°	900.1	925.7	974.7	1022.4	1034.6
60°	818.1	849.9	900.1	947.8	967.3
62.5°	738.6	772.9	824.2	871.9	893.9
65°	659.1	693.4	746.0	796.1	818.1
67.5°	578.4	613.9	670.2	717.8	742.3
70°	497.7	533.2	587.0	638.4	664.0
72.5°	417.0	454.9	507.5	560.1	585.8
75°	335.1	374.2	428.0	479.4	511.2
77.5°	258.0	295.9	349.8	402.3	429.2
80°	184.7	222.6	275.2	327.7	355.9
82.5°	117.4	152.9	204.2	248.3	273.9
85°	61.1	90.5	129.6	144.3	161.4
87.5°	18.3	35.5	50.1	56.3	69.7
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589879

CATALOG NUMBER: 24CZSP-SB-57HE-L845

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	15.4	17.0	15.7	17.3	17.7	16.1	17.8	16.5	18.1	18.4
	3H	17.1	18.6	17.5	19.0	19.3	18.2	19.7	18.6	20.0	20.4
	4H	17.8	19.2	18.2	19.5	19.9	19.1	20.5	19.5	20.9	21.2
	6H	18.2	19.5	18.6	19.9	20.2	19.9	21.2	20.3	21.5	21.9
	8H	18.3	19.5	18.7	19.9	20.3	20.2	21.4	20.6	21.8	22.2
	12H	18.3	19.5	18.8	19.9	20.3	20.4	21.6	20.8	22.0	22.4
4H	2H	16.1	17.6	16.5	17.9	18.3	16.7	18.1	17.1	18.5	18.9
	3H	18.1	19.3	18.5	19.7	20.1	19.0	20.2	19.5	20.6	21.0
	4H	18.9	20.0	19.3	20.4	20.8	20.1	21.2	20.5	21.6	22.0
	6H	19.4	20.4	19.9	20.8	21.3	21.0	22.0	21.5	22.4	22.9
	8H	19.6	20.5	20.0	20.9	21.4	21.4	22.3	21.9	22.7	23.2
	12H	19.7	20.5	20.1	20.9	21.4	21.7	22.5	22.1	22.9	23.4
8H	4H	19.3	20.2	19.8	20.7	21.1	20.4	21.3	20.8	21.7	22.2
	6H	20.0	20.8	20.5	21.2	21.7	21.5	22.2	22.0	22.7	23.2
	8H	20.2	20.9	20.7	21.4	21.9	22.0	22.6	22.5	23.1	23.6
	12H	20.4	21.0	20.9	21.5	22.0	22.3	22.9	22.8	23.4	24.0
12H	4H	19.4	20.2	19.9	20.7	21.2	20.4	21.2	20.9	21.7	22.2
	6H	20.2	20.8	20.7	21.3	21.8	21.5	22.2	22.0	22.7	23.2
	8H	20.4	21.0	20.9	21.5	22.1	22.1	22.7	22.6	23.2	23.7

(END OF REPORT)