

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: P1589878

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

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589878
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-57HE-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

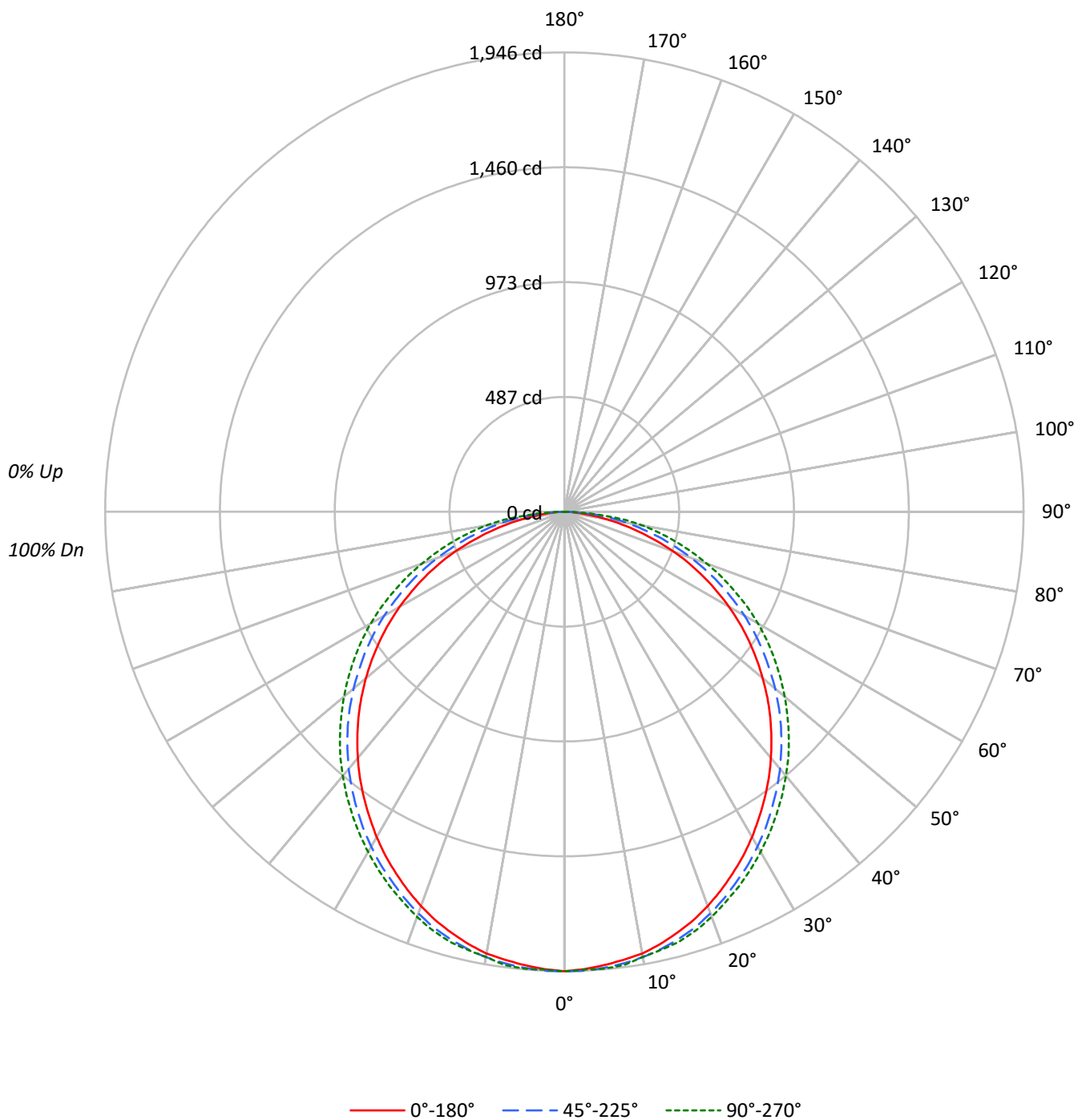
Lumens per Lamp: N/A
Luminaire Lumens: 5662.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	2981	2981	2981
5°	2964	2981	2987
10°	2955	2980	2978
15°	2928	2970	2988
20°	2897	2950	2976
25°	2855	2921	2958
30°	2813	2895	2943
35°	2767	2867	2929
40°	2723	2842	2920
45°	2673	2812	2913
50°	2615	2777	2905
55°	2550	2742	2901
60°	2470	2701	2903
65°	2357	2644	2887
70°	2204	2564	2880
75°	1953	2465	2890
80°	1590	2342	2976
85°	1028	2162	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.3
10°-20°	527.5	9.3
20°-30°	795.3	14.0
30°-40°	956.9	16.9
40°-50°	998.2	17.6
50°-60°	914.9	16.2
60°-70°	718.4	12.7
70°-80°	437.3	7.7
80°-90°	129.3	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°	1506.9	26.6
0°-40°	2463.9	43.5
0°-60°	4376.9	77.3
0°-90°	5662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1928	1940	1939	1937	1943	183
15°	1846	1865	1873	1876	1884	521
25°	1689	1712	1728	1739	1750	779
35°	1480	1503	1534	1555	1566	926
45°	1234	1259	1298	1329	1345	951
55°	955	979	1027	1068	1086	853
65°	650	675	730	778	797	643
75°	330	360	417	466	488	350
85°	58	83	123	138	146	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.4	1946.4	1946.4	1946.4	1946.4
2.5°	1939.1	1948.8	1946.4	1937.9	1941.5
5°	1928.1	1940.3	1939.1	1936.7	1942.7
7.5°	1914.7	1928.1	1929.3	1929.3	1936.7
10°	1900.1	1913.5	1915.9	1912.3	1914.7
12.5°	1875.8	1891.6	1896.5	1896.5	1900.1
15°	1846.5	1864.8	1873.3	1875.8	1884.3
17.5°	1814.9	1834.3	1845.3	1851.4	1858.7
20°	1777.1	1797.8	1810.0	1817.3	1825.8
22.5°	1734.5	1757.6	1771.0	1778.3	1788.1
25°	1689.4	1712.5	1728.4	1739.3	1750.3
27.5°	1641.9	1663.8	1685.7	1699.1	1708.9
30°	1590.7	1613.9	1637.0	1654.1	1663.8
32.5°	1535.9	1560.3	1587.1	1605.4	1616.3
35°	1479.9	1503.0	1533.5	1555.4	1566.4
37.5°	1422.6	1447.0	1478.7	1501.8	1515.2
40°	1361.7	1387.3	1421.4	1447.0	1460.4
42.5°	1298.4	1322.8	1360.5	1389.8	1405.6
45°	1233.9	1259.4	1298.4	1328.9	1344.7
47.5°	1166.9	1191.2	1233.9	1269.2	1282.6
50°	1097.4	1120.6	1165.6	1203.4	1219.2
52.5°	1026.8	1051.2	1096.2	1136.4	1153.5
55°	954.9	979.3	1026.8	1068.2	1086.5
57.5°	881.8	906.2	954.9	997.6	1019.5
60°	806.3	830.7	881.8	925.7	947.6
62.5°	728.4	754.0	806.3	851.4	874.5
65°	650.4	674.8	729.6	778.3	796.6
67.5°	572.5	596.8	650.4	699.1	721.1
70°	492.1	520.1	572.5	623.6	643.1
72.5°	408.0	439.7	492.1	545.7	565.2
75°	330.1	360.5	416.6	466.5	488.4
77.5°	253.3	286.2	338.6	389.8	411.7
80°	180.3	211.9	265.5	314.2	337.4
82.5°	114.5	142.5	196.1	240.0	257.0
85°	58.5	82.8	123.0	137.6	146.2
87.5°	17.1	29.2	43.8	54.8	60.9
90°	0.0	0.0	0.0	0.0	0.0

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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	15.3	17.0	15.7	17.3	17.6	16.0	17.7	16.4	18.0	18.3
	3H	17.1	18.6	17.4	18.9	19.3	18.1	19.6	18.5	19.9	20.3
	4H	17.7	19.1	18.1	19.4	19.8	19.0	20.4	19.4	20.7	21.1
	6H	18.1	19.4	18.5	19.8	20.2	19.7	21.0	20.1	21.4	21.8
	8H	18.2	19.5	18.6	19.8	20.2	20.0	21.3	20.4	21.7	22.1
	12H	18.2	19.5	18.7	19.8	20.3	20.2	21.4	20.6	21.8	22.2
4H	2H	16.1	17.5	16.5	17.8	18.2	16.6	18.1	17.0	18.4	18.8
	3H	18.1	19.2	18.5	19.6	20.0	18.9	20.1	19.4	20.5	20.9
	4H	18.8	19.9	19.2	20.3	20.7	20.0	21.0	20.4	21.5	21.9
	6H	19.3	20.3	19.8	20.7	21.2	20.9	21.8	21.3	22.3	22.7
	8H	19.5	20.4	19.9	20.8	21.3	21.2	22.1	21.7	22.6	23.0
	12H	19.5	20.3	20.0	20.8	21.3	21.5	22.3	22.0	22.8	23.2
8H	4H	19.2	20.1	19.7	20.6	21.0	20.3	21.2	20.7	21.6	22.1
	6H	19.9	20.6	20.4	21.1	21.6	21.3	22.1	21.8	22.5	23.0
	8H	20.1	20.8	20.6	21.3	21.8	21.8	22.5	22.3	23.0	23.4
	12H	20.3	20.8	20.8	21.3	21.9	22.1	22.7	22.7	23.2	23.8
12H	4H	19.3	20.1	19.8	20.6	21.1	20.3	21.1	20.8	21.6	22.0
	6H	20.0	20.7	20.6	21.2	21.7	21.4	22.1	21.9	22.5	23.1
	8H	20.3	20.9	20.8	21.4	21.9	21.9	22.5	22.4	23.0	23.5

(END OF REPORT)