

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: P1589859

Luminaire Tested: 24CZSP-SB-57-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589859
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-57-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 5000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

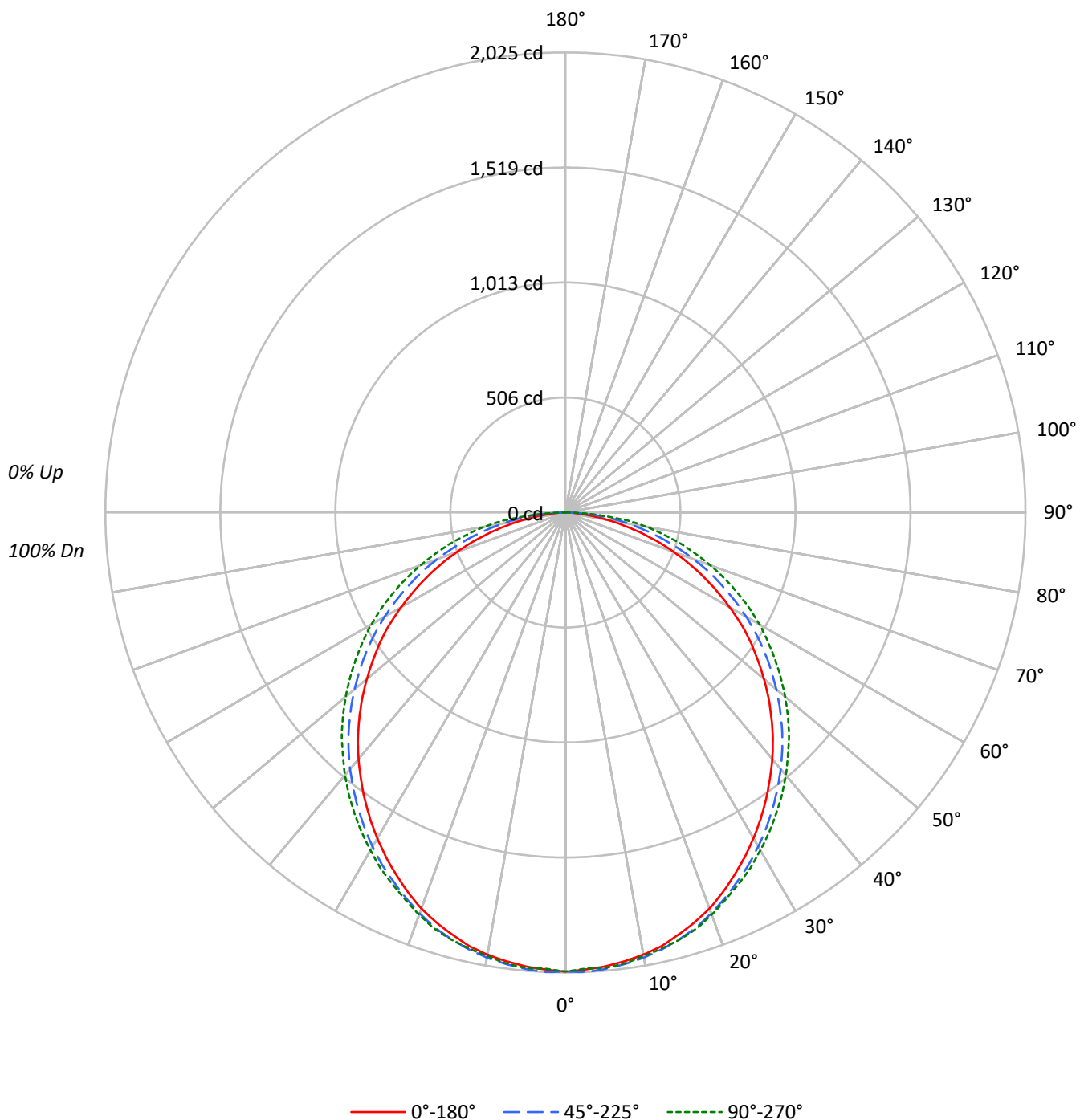
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5898.0 lumens
Efficiency: N/A
Efficacy: 144.2 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): 40.9
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

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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	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°	3095	3095	3095
5°	3084	3102	3094
10°	3073	3095	3083
15°	3050	3082	3086
20°	3024	3060	3070
25°	2975	3027	3048
30°	2928	3002	3036
35°	2880	2973	3025
40°	2833	2948	3017
45°	2780	2920	3015
50°	2719	2888	3007
55°	2657	2857	3007
60°	2558	2815	3025
65°	2438	2760	3027
70°	2275	2683	3035
75°	2024	2585	3088
80°	1663	2478	3204
85°	1097	2325	2896

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3281 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	3.2
10°-20°	547.2	9.3
20°-30°	824.8	14.0
30°-40°	993.2	16.8
40°-50°	1037.7	17.6
50°-60°	953.3	16.2
60°-70°	750.7	12.7
70°-80°	460.3	7.8
80°-90°	139.6	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°	1563.2	26.5
0°-40°	2556.4	43.3
0°-60°	4547.4	77.1
0°-90°	5898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2021	2021	2021	2021	2021	
5°	2006	2010	2017	2015	2012	191
15°	1924	1931	1944	1951	1946	543
25°	1760	1771	1791	1810	1804	811
35°	1540	1560	1590	1619	1618	963
45°	1283	1311	1348	1386	1392	990
55°	995	1024	1070	1116	1126	888
65°	673	708	762	813	835	665
75°	342	382	437	489	522	364
85°	62	92	132	147	165	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2021.0	2021.0	2021.0	2021.0	2021.0
2.5°	2013.5	2018.5	2024.8	2014.8	2009.8
5°	2006.0	2009.8	2017.3	2014.8	2012.3
7.5°	1992.3	1994.8	2004.8	2004.8	2002.3
10°	1976.1	1981.1	1989.8	1988.6	1982.3
12.5°	1954.8	1958.6	1968.6	1968.6	1964.8
15°	1923.6	1931.1	1943.6	1951.1	1946.1
17.5°	1891.2	1898.7	1914.9	1922.4	1919.9
20°	1855.0	1861.2	1877.5	1888.7	1883.7
22.5°	1810.0	1817.5	1836.3	1848.7	1843.7
25°	1760.1	1771.3	1791.3	1810.0	1803.8
27.5°	1710.2	1722.7	1747.6	1766.4	1763.9
30°	1655.3	1671.5	1697.7	1721.4	1716.4
32.5°	1599.1	1617.8	1645.3	1670.2	1669.0
35°	1540.4	1560.4	1590.3	1619.1	1617.8
37.5°	1478.0	1501.7	1532.9	1564.1	1565.4
40°	1416.8	1439.3	1474.3	1508.0	1509.2
42.5°	1351.9	1375.6	1413.1	1448.0	1449.3
45°	1283.3	1310.7	1348.2	1385.6	1391.9
47.5°	1213.4	1242.1	1280.8	1320.7	1328.2
50°	1141.0	1170.9	1212.1	1254.5	1262.0
52.5°	1067.3	1098.5	1141.0	1183.4	1194.6
55°	994.9	1023.6	1069.8	1116.0	1126.0
57.5°	918.8	945.0	994.9	1043.6	1056.1
60°	835.1	867.6	918.8	967.4	987.4
62.5°	754.0	788.9	841.4	890.0	912.5
65°	672.8	707.8	761.5	812.6	835.1
67.5°	590.4	626.6	684.1	732.8	757.7
70°	508.1	544.3	599.2	651.6	677.8
72.5°	425.7	464.4	518.0	571.7	597.9
75°	342.0	382.0	436.9	489.3	521.8
77.5°	263.4	302.1	357.0	410.7	438.2
80°	188.5	227.2	280.9	334.5	363.3
82.5°	119.8	156.0	208.5	253.4	279.6
85°	62.4	92.4	132.3	147.3	164.8
87.5°	18.7	36.2	51.2	57.4	71.2
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	15.4	17.1	15.8	17.4	17.7	16.2	17.8	16.6	18.2	18.5
	3H	17.2	18.7	17.6	19.0	19.4	18.3	19.8	18.7	20.1	20.5
	4H	17.8	19.2	18.2	19.6	20.0	19.2	20.6	19.6	20.9	21.3
	6H	18.2	19.6	18.6	19.9	20.3	19.9	21.3	20.3	21.6	22.0
	8H	18.3	19.6	18.8	20.0	20.4	20.2	21.5	20.7	21.9	22.3
	12H	18.4	19.6	18.8	20.0	20.4	20.5	21.7	20.9	22.0	22.5
4H	2H	16.2	17.6	16.6	18.0	18.4	16.8	18.2	17.2	18.6	18.9
	3H	18.2	19.4	18.6	19.8	20.2	19.1	20.3	19.5	20.7	21.1
	4H	19.0	20.0	19.4	20.5	20.9	20.2	21.2	20.6	21.7	22.1
	6H	19.5	20.4	19.9	20.9	21.3	21.1	22.0	21.5	22.5	22.9
	8H	19.6	20.5	20.1	21.0	21.4	21.5	22.4	21.9	22.8	23.3
	12H	19.7	20.5	20.2	21.0	21.5	21.7	22.5	22.2	23.0	23.5
8H	4H	19.4	20.3	19.9	20.7	21.2	20.5	21.3	20.9	21.8	22.2
	6H	20.1	20.8	20.6	21.3	21.8	21.5	22.3	22.0	22.8	23.2
	8H	20.3	21.0	20.8	21.5	22.0	22.0	22.7	22.5	23.2	23.7
	12H	20.5	21.0	21.0	21.5	22.1	22.4	23.0	22.9	23.5	24.0
12H	4H	19.5	20.3	20.0	20.8	21.2	20.5	21.3	21.0	21.8	22.2
	6H	20.2	20.9	20.7	21.4	21.9	21.6	22.3	22.1	22.7	23.3
	8H	20.5	21.1	21.0	21.6	22.1	22.1	22.7	22.6	23.2	23.8

(END OF REPORT)