

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: P1590038

Luminaire Tested: 24CZSP-SB-80-L845-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590038
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-80-L845-S
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

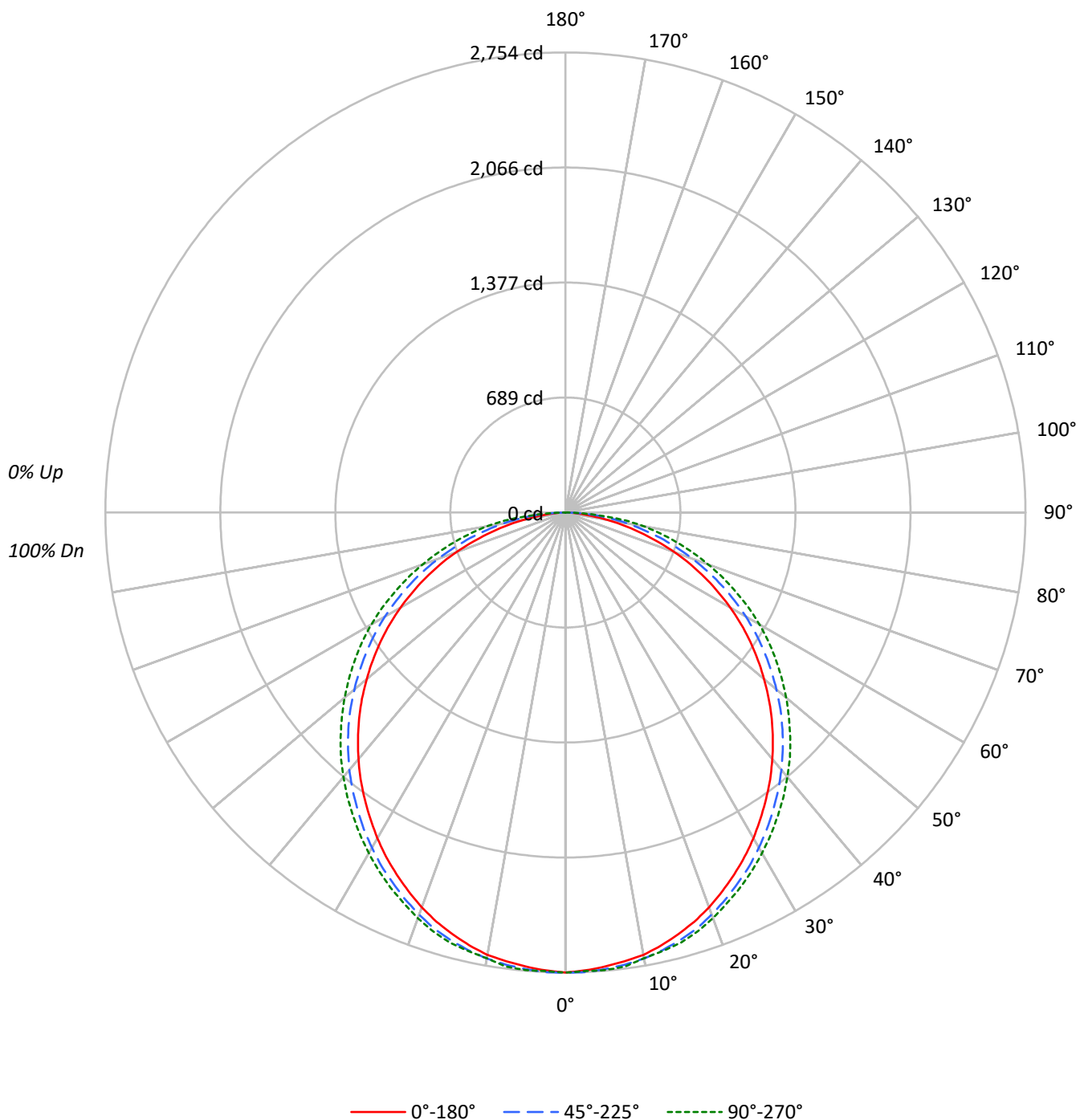
Lumens per Lamp: N/A
Luminaire Lumens: 8012.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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°	4218	4218	4218
5°	4195	4219	4227
10°	4182	4217	4214
15°	4143	4203	4228
20°	4099	4175	4211
25°	4040	4133	4186
30°	3981	4097	4164
35°	3915	4057	4144
40°	3853	4022	4132
45°	3782	3980	4122
50°	3700	3930	4111
55°	3608	3880	4105
60°	3495	3823	4108
65°	3336	3742	4085
70°	3118	3628	4075
75°	2764	3489	4090
80°	2250	3314	4211
85°	1453	3060	3634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	3.3
10°-20°	746.4	9.3
20°-30°	1125.4	14.0
30°-40°	1354.1	16.9
40°-50°	1412.4	17.6
50°-60°	1294.7	16.2
60°-70°	1016.6	12.7
70°-80°	618.7	7.7
80°-90°	183.0	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°	2132.4	26.6
0°-40°	3486.5	43.5
0°-60°	6193.6	77.3
0°-90°	8012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2754	2754	2754	2754	2754	
5°	2728	2746	2744	2740	2749	259
15°	2613	2639	2651	2654	2666	737
25°	2391	2423	2446	2461	2477	1102
35°	2094	2127	2170	2201	2216	1310
45°	1746	1782	1837	1880	1903	1346
55°	1351	1386	1453	1512	1537	1207
65°	920	955	1032	1101	1127	910
75°	467	510	590	660	691	495
85°	83	117	174	195	207	108
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2754.2	2754.2	2754.2	2754.2	2754.2
2.5°	2743.9	2757.7	2754.2	2742.2	2747.4
5°	2728.4	2745.6	2743.9	2740.5	2749.1
7.5°	2709.4	2728.4	2730.1	2730.1	2740.5
10°	2688.8	2707.7	2711.2	2706.0	2709.4
12.5°	2654.3	2676.7	2683.6	2683.6	2688.8
15°	2612.9	2638.8	2650.8	2654.3	2666.3
17.5°	2568.1	2595.7	2611.2	2619.8	2630.2
20°	2514.7	2544.0	2561.2	2571.6	2583.6
22.5°	2454.3	2487.1	2506.1	2516.4	2530.2
25°	2390.6	2423.3	2445.7	2461.2	2476.8
27.5°	2323.4	2354.4	2385.4	2404.4	2418.2
30°	2251.0	2283.7	2316.5	2340.6	2354.4
32.5°	2173.4	2207.9	2245.8	2271.7	2287.2
35°	2094.1	2126.9	2170.0	2201.0	2216.5
37.5°	2013.1	2047.6	2092.4	2125.1	2144.1
40°	1926.9	1963.1	2011.4	2047.6	2066.5
42.5°	1837.3	1871.8	1925.2	1966.6	1989.0
45°	1746.0	1782.2	1837.3	1880.4	1902.8
47.5°	1651.2	1685.6	1746.0	1795.9	1814.9
50°	1552.9	1585.7	1649.4	1702.9	1725.3
52.5°	1453.0	1487.4	1551.2	1608.1	1632.2
55°	1351.3	1385.7	1453.0	1511.6	1537.4
57.5°	1247.9	1282.3	1351.3	1411.6	1442.6
60°	1141.0	1175.5	1247.9	1309.9	1340.9
62.5°	1030.7	1066.9	1141.0	1204.8	1237.5
65°	920.4	954.9	1032.4	1101.4	1127.2
67.5°	810.1	844.5	920.4	989.3	1020.3
70°	696.3	736.0	810.1	882.5	910.0
72.5°	577.4	622.2	696.3	772.2	799.7
75°	467.1	510.2	589.5	660.1	691.1
77.5°	358.5	405.0	479.1	551.5	582.6
80°	255.1	299.9	375.7	444.7	477.4
82.5°	162.0	201.7	277.5	339.5	363.7
85°	82.7	117.2	174.1	194.8	206.8
87.5°	24.1	41.4	62.0	77.6	86.2
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	16.5	18.2	16.9	18.5	18.8	17.2	18.9	17.6	19.2	19.5
	3H	18.3	19.8	18.6	20.1	20.5	19.3	20.8	19.7	21.1	21.5
	4H	18.9	20.3	19.3	20.7	21.0	20.2	21.6	20.6	21.9	22.3
	6H	19.3	20.6	19.7	21.0	21.4	20.9	22.2	21.3	22.6	23.0
	8H	19.4	20.7	19.8	21.0	21.4	21.2	22.5	21.6	22.9	23.3
	12H	19.4	20.7	19.9	21.0	21.5	21.4	22.6	21.8	23.0	23.4
4H	2H	17.3	18.7	17.7	19.0	19.4	17.8	19.3	18.2	19.6	20.0
	3H	19.3	20.5	19.7	20.9	21.3	20.2	21.3	20.6	21.7	22.1
	4H	20.0	21.1	20.4	21.5	21.9	21.2	22.3	21.6	22.7	23.1
	6H	20.5	21.5	21.0	21.9	22.4	22.1	23.0	22.5	23.5	23.9
	8H	20.7	21.6	21.1	22.0	22.5	22.4	23.3	22.9	23.8	24.2
	12H	20.8	21.6	21.2	22.0	22.5	22.7	23.5	23.2	24.0	24.4
8H	4H	20.4	21.3	20.9	21.8	22.2	21.5	22.4	21.9	22.8	23.3
	6H	21.1	21.9	21.6	22.3	22.8	22.5	23.3	23.0	23.8	24.2
	8H	21.3	22.0	21.8	22.5	23.0	23.0	23.7	23.5	24.2	24.7
	12H	21.5	22.0	22.0	22.5	23.1	23.4	23.9	23.9	24.4	25.0
12H	4H	20.5	21.3	21.0	21.8	22.3	21.5	22.3	22.0	22.8	23.2
	6H	21.2	21.9	21.8	22.4	22.9	22.6	23.3	23.1	23.7	24.3
	8H	21.5	22.1	22.0	22.6	23.2	23.1	23.7	23.6	24.2	24.8

(END OF REPORT)