

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1588894

Luminaire Tested: 24CZSP-A-80-L835-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-A-80-L835-S
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

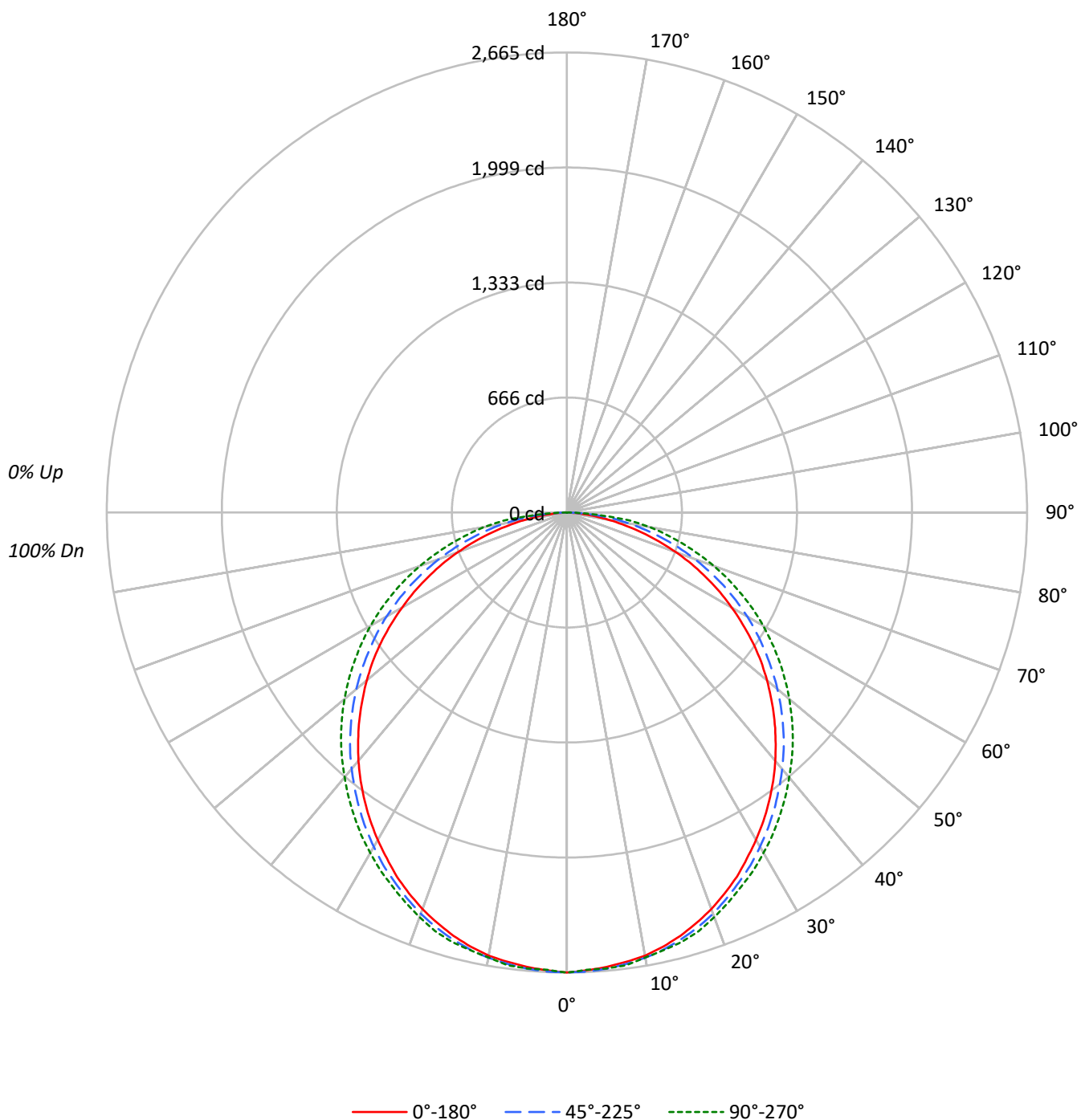
Lumens per Lamp: N/A
Luminaire Lumens: 7780.0 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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: 24 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
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	64	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°	4082	4082	4082
5°	4063	4079	4076
10°	4054	4073	4070
15°	4025	4058	4082
20°	3985	4032	4065
25°	3935	3990	4039
30°	3874	3955	4028
35°	3818	3917	4016
40°	3755	3877	4004
45°	3683	3838	4008
50°	3604	3791	4007
55°	3510	3738	4012
60°	3378	3697	4021
65°	3223	3626	4034
70°	3004	3524	4052
75°	2677	3384	4092
80°	2214	3222	4291
85°	1439	2910	3750

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.0	3.2
10°-20°	721.7	9.3
20°-30°	1088.4	14.0
30°-40°	1310.9	16.8
40°-50°	1369.1	17.6
50°-60°	1257.3	16.2
60°-70°	990.3	12.7
70°-80°	607.5	7.8
80°-90°	182.8	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°	2062.0	26.5
0°-40°	3373.0	43.4
0°-60°	5999.3	77.1
0°-90°	7780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2665	2665	2665	2665	2665	
5°	2643	2646	2653	2661	2651	251
15°	2538	2544	2559	2574	2574	716
25°	2328	2334	2361	2390	2390	1072
35°	2042	2052	2095	2137	2148	1277
45°	1700	1719	1772	1834	1850	1311
55°	1314	1338	1400	1478	1502	1173
65°	889	920	1000	1084	1113	880
75°	452	488	572	662	691	480
85°	82	113	166	210	213	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2664.9	2664.9	2664.9	2664.9	2664.9
2.5°	2654.6	2659.7	2661.4	2663.2	2651.2
5°	2642.7	2646.1	2652.9	2661.4	2651.2
7.5°	2625.6	2629.0	2637.5	2649.5	2644.4
10°	2606.8	2608.5	2618.8	2627.3	2617.1
12.5°	2576.1	2581.2	2593.2	2600.0	2596.6
15°	2538.5	2543.7	2559.0	2574.4	2574.4
17.5°	2494.1	2501.0	2519.8	2540.2	2541.9
20°	2444.6	2449.8	2473.7	2494.1	2494.1
22.5°	2388.3	2395.1	2419.0	2441.2	2444.6
25°	2328.5	2333.7	2361.0	2390.0	2390.0
27.5°	2258.6	2268.8	2302.9	2332.0	2338.8
30°	2190.3	2198.8	2236.4	2272.2	2277.3
32.5°	2118.6	2128.8	2168.1	2207.3	2215.9
35°	2041.7	2052.0	2094.7	2137.3	2147.6
37.5°	1961.5	1973.5	2017.8	2067.4	2077.6
40°	1877.9	1891.5	1939.3	1992.2	2002.5
42.5°	1789.1	1807.9	1859.1	1913.7	1929.1
45°	1700.3	1719.1	1772.0	1833.5	1850.5
47.5°	1606.4	1628.6	1683.2	1748.1	1766.9
50°	1512.5	1534.7	1591.1	1661.1	1681.5
52.5°	1416.9	1439.1	1497.2	1570.6	1592.8
55°	1314.5	1338.4	1399.9	1478.4	1502.3
57.5°	1208.7	1239.4	1304.3	1384.5	1408.4
60°	1102.8	1133.5	1207.0	1285.5	1312.8
62.5°	998.7	1027.7	1102.8	1186.5	1215.5
65°	889.4	920.2	1000.4	1084.0	1113.1
67.5°	781.9	812.6	892.8	979.9	1010.6
70°	670.9	705.1	787.0	874.1	904.8
72.5°	559.9	595.8	679.4	768.2	797.2
75°	452.4	488.2	571.9	662.4	691.4
77.5°	346.6	385.8	467.8	559.9	587.3
80°	251.0	288.5	365.3	455.8	486.5
82.5°	160.5	192.9	269.7	355.1	377.3
85°	81.9	112.7	165.6	210.0	213.4
87.5°	25.6	35.9	54.6	81.9	83.7
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	16.36	18.03	16.73	18.34	18.66	17.19	18.86	17.56	19.17	19.49
	3H	18.12	19.63	18.50	19.95	20.31	19.31	20.82	19.69	21.14	21.50
	4H	18.74	20.16	19.14	20.51	20.88	20.20	21.62	20.60	21.97	22.34
	6H	19.15	20.47	19.56	20.83	21.22	20.98	22.30	21.39	22.67	23.06
	8H	19.26	20.52	19.68	20.91	21.31	21.30	22.56	21.73	22.95	23.35
	12H	19.31	20.52	19.74	20.90	21.33	21.51	22.72	21.94	23.10	23.53
4H	2H	17.14	18.56	17.53	18.91	19.28	17.78	19.21	18.18	19.55	19.93
	3H	19.11	20.31	19.52	20.71	21.11	20.14	21.34	20.55	21.73	22.13
	4H	19.85	20.94	20.28	21.35	21.78	21.19	22.28	21.62	22.69	23.12
	6H	20.38	21.33	20.83	21.77	22.22	22.14	23.09	22.59	23.53	23.99
	8H	20.53	21.42	20.98	21.86	22.32	22.54	23.43	23.00	23.87	24.34
	12H	20.61	21.41	21.09	21.89	22.36	22.82	23.62	23.30	24.09	24.56
8H	4H	20.31	21.20	20.77	21.64	22.11	21.48	22.37	21.94	22.81	23.28
	6H	20.97	21.72	21.46	22.20	22.68	22.59	23.34	23.08	23.82	24.30
	8H	21.18	21.85	21.69	22.35	22.84	23.10	23.77	23.61	24.28	24.76
	12H	21.32	21.91	21.83	22.40	22.96	23.49	24.08	23.99	24.57	25.13
12H	4H	20.40	21.20	20.88	21.68	22.15	21.50	22.31	21.98	22.78	23.25
	6H	21.10	21.77	21.61	22.28	22.76	22.64	23.31	23.14	23.81	24.30
	8H	21.38	21.97	21.89	22.46	23.02	23.22	23.81	23.72	24.30	24.86