

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: P1588555

Luminaire Tested: 24CZSP-80-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2604-747-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-80-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 8000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

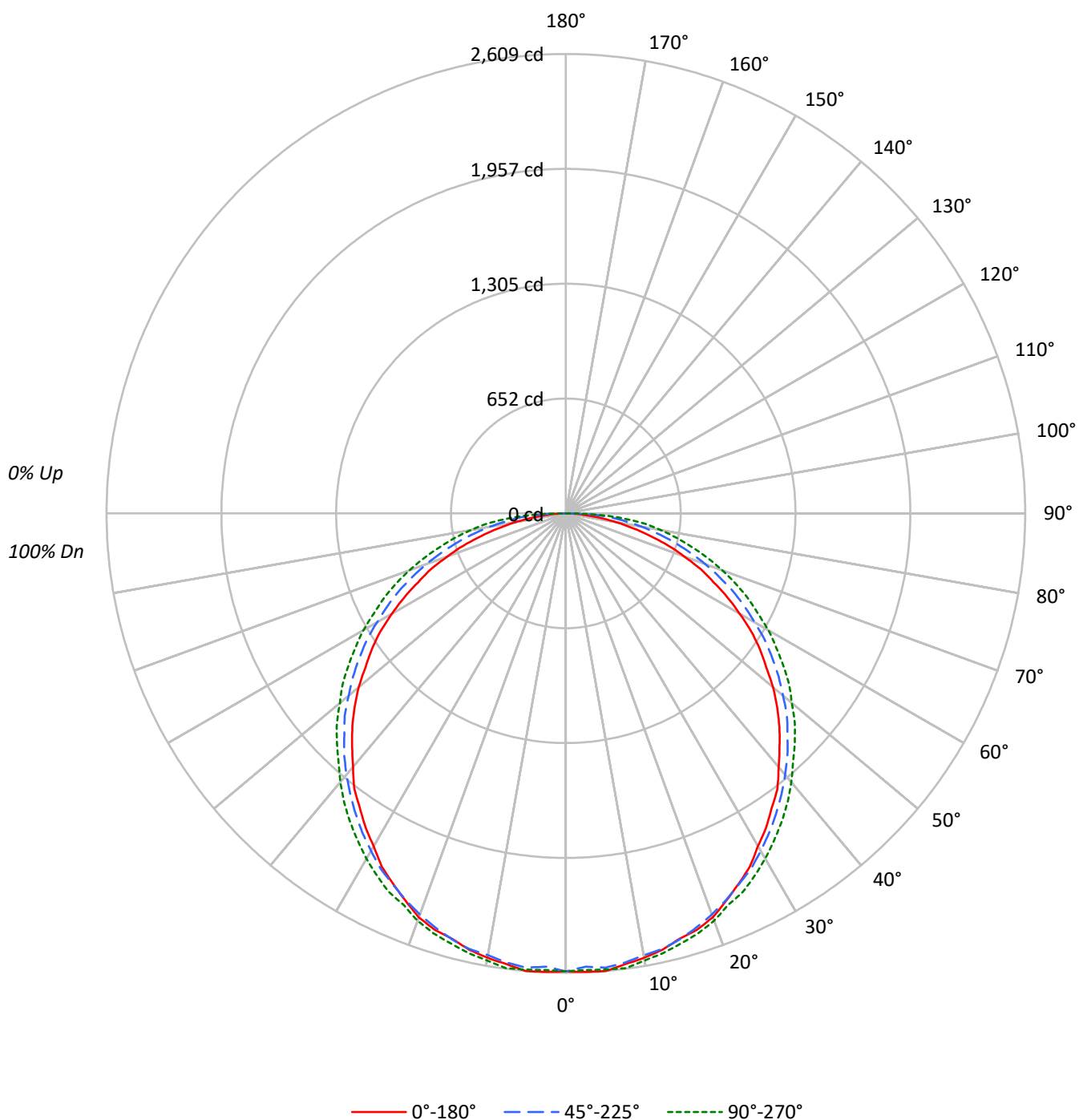
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7939.0 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
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			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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3984	3984	3984
5°	4011	3981	3999
10°	3986	3962	4010
15°	3964	3970	4010
20°	3979	3951	4013
25°	3923	3930	4013
30°	3860	3914	4005
35°	3815	3893	3996
40°	3760	3874	3984
45°	3715	3855	3982
50°	3661	3837	3991
55°	3595	3823	4026
60°	3495	3798	4071
65°	3356	3797	4134
70°	3201	3772	4232
75°	2948	3780	4388
80°	2583	3857	4830
85°	1972	4444	5780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6408 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	3.1
10°-20°	709.9	8.9
20°-30°	1078.4	13.6
30°-40°	1306.3	16.5
40°-50°	1374.3	17.3
50°-60°	1277.8	16.1
60°-70°	1028.9	13.0
70°-80°	666.5	8.4
80°-90°	249.9	3.1
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°	2035.2	25.6
0°-40°	3341.5	42.1
0°-60°	5993.7	75.5
0°-90°	7939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2601	2601	2601	2601	2601	
5°	2609	2605	2590	2605	2601	247
15°	2500	2510	2504	2534	2529	708
25°	2322	2320	2325	2365	2375	1070
35°	2040	2055	2082	2118	2137	1278
45°	1715	1738	1780	1818	1839	1322
55°	1346	1380	1432	1489	1508	1201
65°	926	968	1048	1110	1141	921
75°	498	548	639	713	742	529
85°	112	165	253	316	329	138
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2601.0	2601.0	2601.0	2601.0	2601.0
2.5°	2606.7	2606.7	2576.3	2608.6	2595.3
5°	2608.6	2604.8	2589.6	2604.8	2601.0
7.5°	2582.0	2585.8	2572.5	2591.5	2604.8
10°	2563.0	2566.8	2547.8	2578.2	2578.2
12.5°	2538.3	2542.1	2534.5	2563.0	2557.3
15°	2500.2	2509.7	2504.0	2534.5	2528.7
17.5°	2479.3	2471.7	2466.0	2488.8	2500.2
20°	2441.3	2424.2	2424.2	2454.6	2462.2
22.5°	2380.4	2374.7	2376.6	2414.7	2407.1
25°	2321.5	2319.6	2325.3	2365.2	2374.7
27.5°	2262.6	2258.8	2275.9	2313.9	2321.5
30°	2182.7	2190.3	2213.1	2255.0	2264.5
32.5°	2116.2	2129.5	2150.4	2190.3	2201.7
35°	2040.1	2055.3	2081.9	2118.1	2137.1
37.5°	1973.6	1983.1	2011.6	2045.8	2068.6
40°	1880.4	1905.1	1937.4	1986.9	1992.6
42.5°	1796.7	1821.5	1863.3	1916.5	1910.8
45°	1715.0	1737.8	1779.6	1817.7	1838.6
47.5°	1627.5	1648.4	1703.6	1749.2	1764.4
50°	1536.3	1562.9	1610.4	1657.9	1675.1
52.5°	1433.6	1462.1	1523.0	1574.3	1599.0
55°	1346.1	1380.4	1431.7	1488.7	1507.7
57.5°	1249.2	1277.7	1340.4	1397.5	1416.5
60°	1140.8	1175.0	1239.7	1300.5	1329.0
62.5°	1036.2	1074.2	1142.7	1205.4	1228.2
65°	925.9	967.8	1047.6	1110.4	1140.8
67.5°	830.9	865.1	943.1	1013.4	1045.7
70°	714.9	760.5	842.3	920.2	945.0
72.5°	612.2	652.2	737.7	815.7	846.1
75°	498.1	547.6	638.8	713.0	741.5
77.5°	393.6	444.9	536.2	614.1	646.4
80°	292.8	342.2	437.3	517.2	547.6
82.5°	197.7	247.2	342.2	420.2	454.4
85°	112.2	165.4	252.9	315.6	328.9
87.5°	49.4	95.1	142.6	171.1	182.5
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	16.49	18.17	16.85	18.48	18.80	17.16	18.84	17.53	19.16	19.47
	3H	18.34	19.87	18.72	20.19	20.55	19.38	20.91	19.76	21.23	21.59
	4H	19.03	20.47	19.42	20.82	21.19	20.34	21.79	20.74	22.13	22.51
	6H	19.52	20.86	19.93	21.22	21.61	21.23	22.58	21.64	22.94	23.33
	8H	19.67	20.95	20.09	21.34	21.74	21.64	22.92	22.06	23.31	23.71
	12H	19.76	20.99	20.18	21.37	21.80	22.00	23.23	22.43	23.61	24.04
4H	2H	17.28	18.72	17.68	19.07	19.45	17.80	19.24	18.20	19.59	19.96
	3H	19.37	20.59	19.78	20.98	21.38	20.26	21.48	20.67	21.88	22.28
	4H	20.19	21.30	20.62	21.71	22.14	21.39	22.50	21.82	22.91	23.34
	6H	20.81	21.79	21.26	22.23	22.68	22.46	23.43	22.91	23.87	24.33
	8H	21.01	21.93	21.47	22.37	22.83	22.95	23.86	23.41	24.31	24.77
	12H	21.14	21.97	21.62	22.44	22.91	23.40	24.23	23.88	24.70	25.17
8H	4H	20.70	21.61	21.15	22.05	22.52	21.73	22.65	22.19	23.09	23.55
	6H	21.48	22.25	21.97	22.73	23.21	22.98	23.75	23.47	24.23	24.71
	8H	21.76	22.45	22.27	22.96	23.44	23.60	24.29	24.11	24.80	25.28
	12H	21.98	22.59	22.49	23.08	23.64	24.21	24.83	24.72	25.32	25.87
12H	4H	20.80	21.63	21.28	22.10	22.57	21.77	22.60	22.25	23.07	23.54
	6H	21.65	22.34	22.15	22.84	23.33	23.05	23.75	23.56	24.25	24.73
	8H	22.02	22.63	22.52	23.12	23.68	23.76	24.37	24.26	24.86	25.42