

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: P1588559

Luminaire Tested: 24CZSP-80-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588559
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 8000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

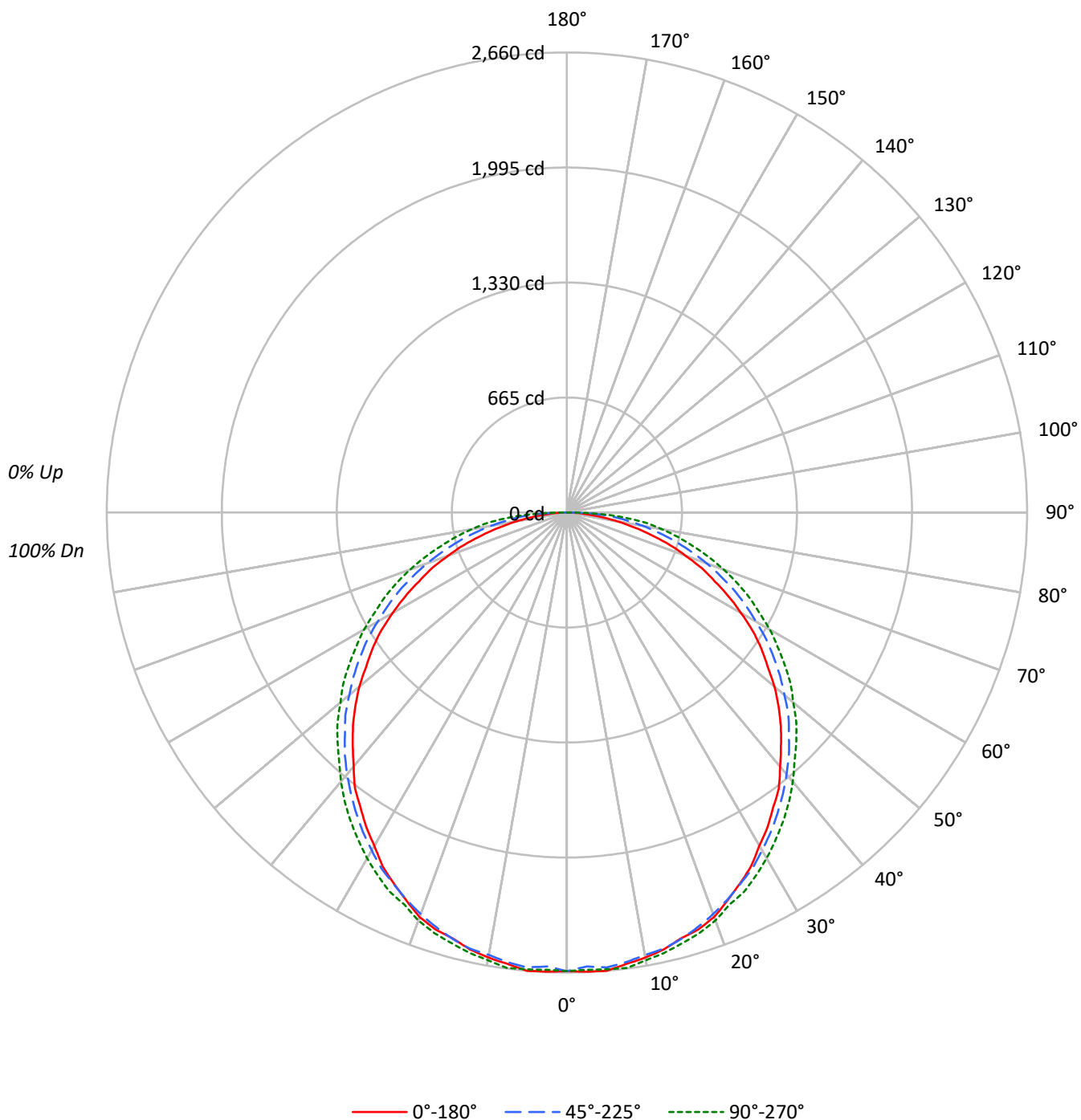
Lumens per Lamp: N/A
Luminaire Lumens: 8094.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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°	4062	4062	4062
5°	4089	4059	4077
10°	4064	4040	4088
15°	4042	4048	4088
20°	4057	4028	4092
25°	4000	4006	4092
30°	3936	3990	4083
35°	3889	3969	4074
40°	3833	3949	4062
45°	3787	3930	4060
50°	3732	3912	4069
55°	3665	3898	4105
60°	3563	3872	4151
65°	3421	3871	4215
70°	3264	3845	4314
75°	3006	3854	4474
80°	2633	3932	4924
85°	2010	4530	5892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6535 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	3.1
10°-20°	723.7	8.9
20°-30°	1099.4	13.6
30°-40°	1331.8	16.5
40°-50°	1401.1	17.3
50°-60°	1302.8	16.1
60°-70°	1049.0	13.0
70°-80°	679.5	8.4
80°-90°	254.8	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°	2075.0	25.6
0°-40°	3406.8	42.1
0°-60°	6110.7	75.5
0°-90°	8094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2660	2656	2640	2656	2652	252
15°	2549	2559	2553	2584	2578	722
25°	2367	2365	2371	2411	2421	1091
35°	2080	2095	2123	2159	2179	1303
45°	1748	1772	1814	1853	1874	1348
55°	1372	1407	1460	1518	1537	1224
65°	944	987	1068	1132	1163	939
75°	508	558	651	727	756	540
85°	114	169	258	322	335	140
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2651.8	2651.8	2651.8	2651.8	2651.8
2.5°	2657.6	2657.6	2626.6	2659.5	2646.0
5°	2659.5	2655.7	2640.1	2655.7	2651.8
7.5°	2632.4	2636.3	2622.7	2642.1	2655.7
10°	2613.0	2616.9	2597.5	2628.5	2628.5
12.5°	2587.8	2591.7	2583.9	2613.0	2607.2
15°	2549.0	2558.7	2552.9	2583.9	2578.1
17.5°	2527.7	2520.0	2514.1	2537.4	2549.0
20°	2488.9	2471.5	2471.5	2502.5	2510.3
22.5°	2426.9	2421.1	2423.0	2461.8	2454.1
25°	2366.8	2364.9	2370.7	2411.4	2421.1
27.5°	2306.7	2302.9	2320.3	2359.1	2366.8
30°	2225.3	2233.1	2256.3	2299.0	2308.7
32.5°	2157.5	2171.0	2192.4	2233.1	2244.7
35°	2079.9	2095.4	2122.6	2159.4	2178.8
37.5°	2012.1	2021.8	2050.9	2085.8	2109.0
40°	1917.1	1942.3	1975.3	2025.7	2031.5
42.5°	1831.8	1857.0	1899.7	1953.9	1948.1
45°	1748.5	1771.7	1814.4	1853.1	1874.5
47.5°	1659.3	1680.6	1736.8	1783.4	1798.9
50°	1566.3	1593.4	1641.9	1690.3	1707.8
52.5°	1461.6	1490.7	1552.7	1605.0	1630.2
55°	1372.4	1407.3	1459.6	1517.8	1537.2
57.5°	1273.6	1302.6	1366.6	1424.7	1444.1
60°	1163.1	1198.0	1263.9	1325.9	1355.0
62.5°	1056.4	1095.2	1165.0	1229.0	1252.2
65°	944.0	986.7	1068.1	1132.0	1163.1
67.5°	847.1	882.0	961.5	1033.2	1066.1
70°	728.9	775.4	858.7	938.2	963.4
72.5°	624.2	664.9	752.1	831.6	862.6
75°	507.9	558.3	651.3	726.9	756.0
77.5°	401.3	453.6	546.6	626.1	659.1
80°	298.5	348.9	445.8	527.3	558.3
82.5°	201.6	252.0	348.9	428.4	463.3
85°	114.4	168.6	257.8	321.8	335.3
87.5°	50.4	96.9	145.4	174.5	186.1
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	16.55	18.23	16.92	18.55	18.86	17.23	18.91	17.59	19.22	19.54
	3H	18.41	19.94	18.78	20.26	20.62	19.45	20.97	19.82	21.30	21.66
	4H	19.09	20.54	19.49	20.89	21.26	20.41	21.85	20.81	22.20	22.57
	6H	19.59	20.93	20.00	21.29	21.68	21.30	22.64	21.71	23.01	23.40
	8H	19.73	21.02	20.16	21.41	21.80	21.71	22.99	22.13	23.38	23.78
	12H	19.82	21.06	20.25	21.44	21.87	22.06	23.30	22.49	23.68	24.11
4H	2H	17.35	18.79	17.74	19.14	19.51	17.87	19.31	18.26	19.66	20.03
	3H	19.43	20.66	19.84	21.05	21.45	20.33	21.55	20.74	21.94	22.34
	4H	20.25	21.36	20.68	21.78	22.21	21.46	22.57	21.89	22.98	23.41
	6H	20.88	21.86	21.33	22.29	22.75	22.53	23.50	22.98	23.94	24.39
	8H	21.08	21.99	21.53	22.43	22.90	23.02	23.93	23.47	24.37	24.84
	12H	21.21	22.04	21.69	22.51	22.98	23.47	24.30	23.95	24.77	25.24
8H	4H	20.76	21.68	21.22	22.12	22.58	21.80	22.71	22.26	23.15	23.62
	6H	21.55	22.32	22.04	22.80	23.27	23.05	23.82	23.54	24.30	24.77
	8H	21.83	22.52	22.34	23.03	23.51	23.67	24.36	24.18	24.87	25.35
	12H	22.05	22.66	22.55	23.15	23.71	24.28	24.89	24.79	25.38	25.94
12H	4H	20.87	21.70	21.35	22.17	22.64	21.84	22.66	22.31	23.14	23.60
	6H	21.71	22.41	22.22	22.91	23.39	23.12	23.81	23.63	24.32	24.80
	8H	22.08	22.70	22.59	23.19	23.74	23.83	24.44	24.33	24.93	25.49