

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: P1588557

Luminaire Tested: 24CZSP-80-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588557
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-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

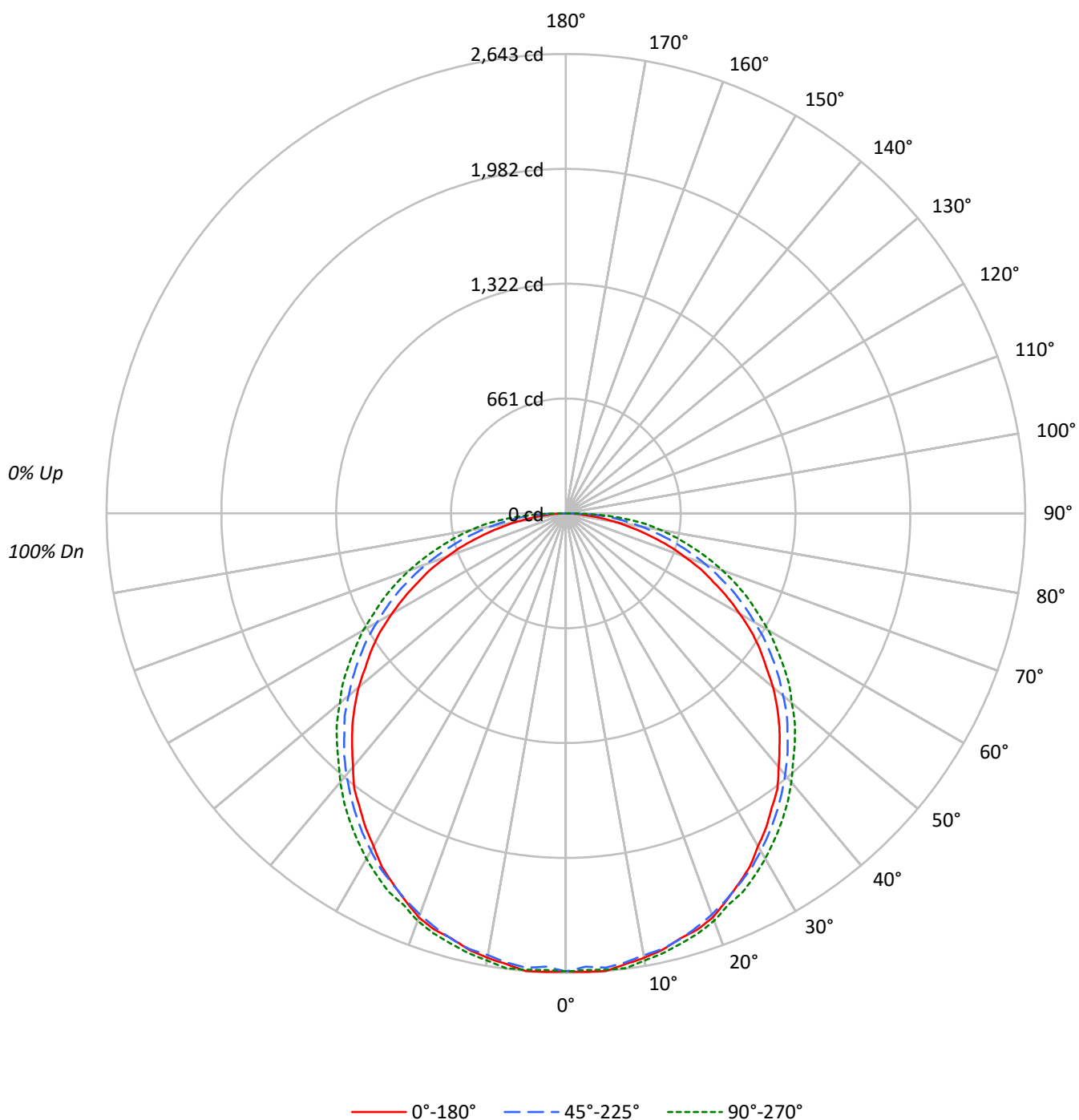
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8043.0 lumens
Efficiency: N/A
Efficacy: 128.3 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°	4036	4036	4036
5°	4063	4034	4051
10°	4038	4014	4062
15°	4016	4022	4062
20°	4031	4003	4066
25°	3975	3981	4066
30°	3911	3965	4057
35°	3864	3944	4048
40°	3809	3924	4036
45°	3764	3905	4035
50°	3709	3888	4044
55°	3642	3873	4079
60°	3540	3847	4124
65°	3400	3846	4188
70°	3244	3821	4287
75°	2987	3830	4445
80°	2616	3907	4893
85°	1996	4502	5855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 6492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.2	3.1
10°-20°	719.2	8.9
20°-30°	1092.5	13.6
30°-40°	1323.4	16.5
40°-50°	1392.3	17.3
50°-60°	1294.6	16.1
60°-70°	1042.3	13.0
70°-80°	675.2	8.4
80°-90°	253.2	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°	2061.9	25.6
0°-40°	3385.3	42.1
0°-60°	6072.2	75.5
0°-90°	8043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2635	2635	2635	2635	2635	
5°	2643	2639	2624	2639	2635	250
15°	2533	2543	2537	2568	2562	718
25°	2352	2350	2356	2396	2406	1084
35°	2067	2082	2109	2146	2165	1295
45°	1738	1761	1803	1842	1863	1339
55°	1364	1398	1450	1508	1528	1216
65°	938	980	1061	1125	1156	933
75°	505	555	647	722	751	536
85°	114	168	256	320	333	139
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2635.1	2635.1	2635.1	2635.1	2635.1
2.5°	2640.8	2640.8	2610.0	2642.8	2629.3
5°	2642.8	2638.9	2623.5	2638.9	2635.1
7.5°	2615.8	2619.7	2606.2	2625.4	2638.9
10°	2596.5	2600.4	2581.1	2612.0	2612.0
12.5°	2571.5	2575.4	2567.7	2596.5	2590.8
15°	2533.0	2542.6	2536.8	2567.7	2561.9
17.5°	2511.8	2504.1	2498.3	2521.4	2533.0
20°	2473.3	2455.9	2455.9	2486.7	2494.5
22.5°	2411.6	2405.8	2407.8	2446.3	2438.6
25°	2351.9	2350.0	2355.8	2396.2	2405.8
27.5°	2292.2	2288.3	2305.7	2344.2	2351.9
30°	2211.3	2219.0	2242.1	2284.5	2294.1
32.5°	2143.9	2157.4	2178.6	2219.0	2230.6
35°	2066.8	2082.2	2109.2	2145.8	2165.1
37.5°	1999.4	2009.0	2037.9	2072.6	2095.7
40°	1905.0	1930.1	1962.8	2012.9	2018.7
42.5°	1820.3	1845.3	1887.7	1941.6	1935.9
45°	1737.5	1760.6	1802.9	1841.5	1862.7
47.5°	1648.8	1670.0	1725.9	1772.1	1787.5
50°	1556.4	1583.4	1631.5	1679.7	1697.0
52.5°	1452.4	1481.3	1542.9	1594.9	1620.0
55°	1363.8	1398.4	1450.4	1508.2	1527.5
57.5°	1265.5	1294.4	1358.0	1415.8	1435.0
60°	1155.7	1190.4	1255.9	1317.5	1346.4
62.5°	1049.8	1088.3	1157.7	1221.2	1244.3
65°	938.1	980.4	1061.3	1124.9	1155.7
67.5°	841.8	876.4	955.4	1026.7	1059.4
70°	724.3	770.5	853.3	932.3	957.3
72.5°	620.2	660.7	747.4	826.3	857.2
75°	504.7	554.8	647.2	722.3	751.2
77.5°	398.7	450.7	543.2	622.2	654.9
80°	296.6	346.7	443.0	523.9	554.8
82.5°	200.3	250.4	346.7	425.7	460.4
85°	113.6	167.6	256.2	319.8	333.2
87.5°	50.1	96.3	144.5	173.4	184.9
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	16.53	18.21	16.90	18.53	18.84	17.21	18.89	17.57	19.20	19.52
	3H	18.39	19.91	18.76	20.24	20.60	19.42	20.95	19.80	21.28	21.64
	4H	19.07	20.52	19.47	20.86	21.24	20.39	21.83	20.79	22.18	22.55
	6H	19.56	20.91	19.97	21.27	21.66	21.28	22.62	21.69	22.99	23.38
	8H	19.71	21.00	20.13	21.38	21.78	21.68	22.97	22.11	23.36	23.75
	12H	19.80	21.03	20.23	21.41	21.84	22.04	23.28	22.47	23.66	24.08
4H	2H	17.33	18.77	17.72	19.12	19.49	17.84	19.29	18.24	19.64	20.01
	3H	19.41	20.63	19.82	21.03	21.43	20.31	21.53	20.71	21.92	22.32
	4H	20.23	21.34	20.66	21.75	22.19	21.43	22.54	21.86	22.96	23.39
	6H	20.86	21.83	21.31	22.27	22.72	22.50	23.48	22.96	23.92	24.37
	8H	21.05	21.97	21.51	22.41	22.87	22.99	23.91	23.45	24.35	24.81
	12H	21.19	22.02	21.67	22.49	22.96	23.45	24.27	23.92	24.75	25.21
8H	4H	20.74	21.66	21.20	22.10	22.56	21.78	22.69	22.23	23.13	23.60
	6H	21.53	22.29	22.02	22.78	23.25	23.03	23.79	23.52	24.28	24.75
	8H	21.81	22.50	22.32	23.00	23.49	23.65	24.34	24.15	24.84	25.33
	12H	22.03	22.64	22.53	23.13	23.69	24.26	24.87	24.76	25.36	25.92
12H	4H	20.85	21.68	21.33	22.15	22.62	21.81	22.64	22.29	23.11	23.58
	6H	21.69	22.38	22.20	22.89	23.37	23.10	23.79	23.61	24.30	24.78
	8H	22.06	22.68	22.57	23.16	23.72	23.81	24.42	24.31	24.91	25.46