

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: P1588801

Luminaire Tested: 24CZSP-A-65-L850

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588801
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-A-65-L850
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 6000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

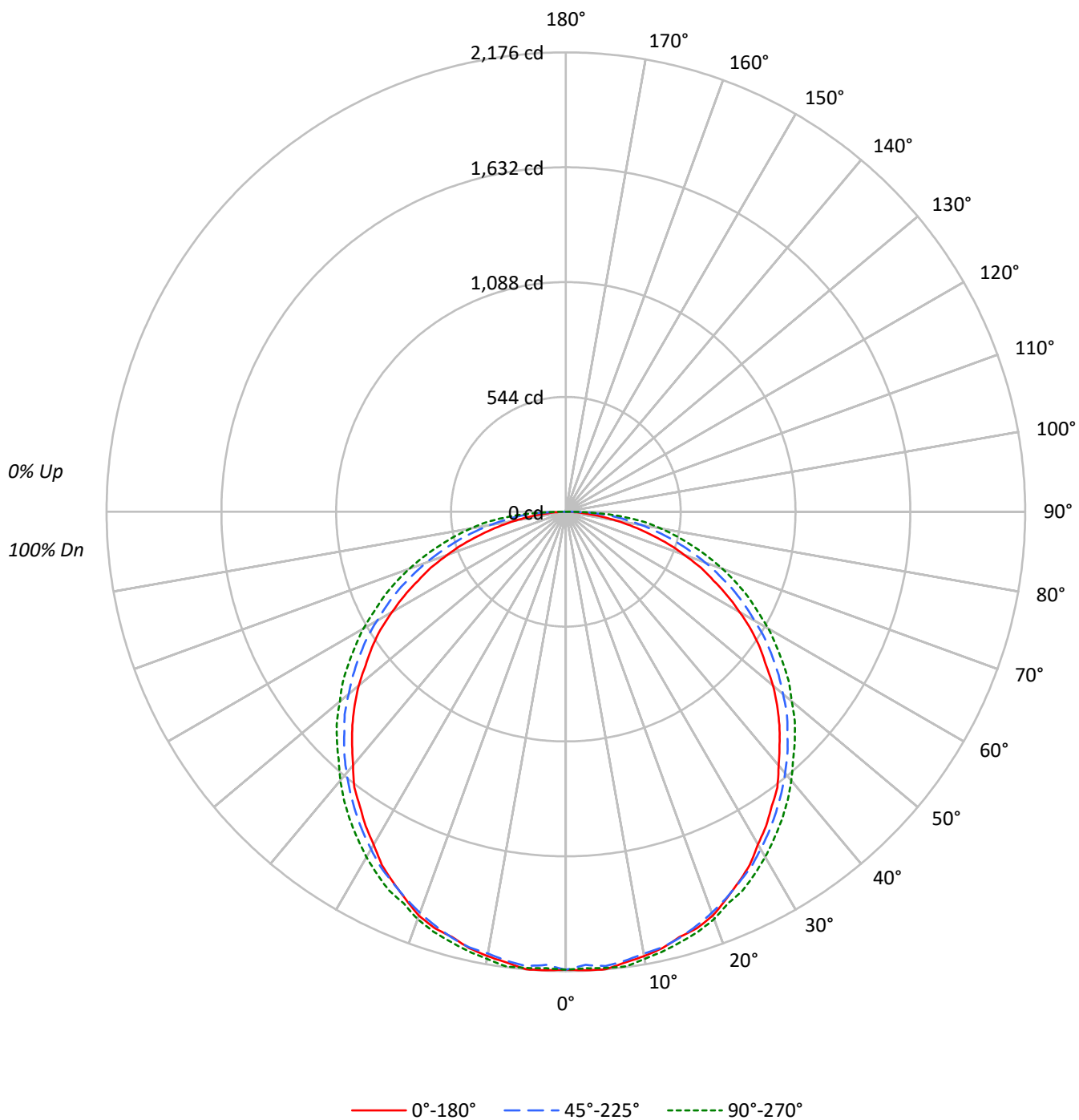
Lumens per Lamp: N/A
Luminaire Lumens: 6621.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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	50	30	10
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°	3322	3322	3322
5°	3345	3320	3335
10°	3324	3305	3344
15°	3306	3311	3344
20°	3319	3295	3347
25°	3272	3277	3347
30°	3219	3264	3340
35°	3181	3246	3332
40°	3135	3231	3323
45°	3098	3215	3321
50°	3053	3200	3329
55°	2998	3188	3358
60°	2914	3167	3395
65°	2799	3166	3448
70°	2670	3145	3529
75°	2458	3153	3660
80°	2154	3217	4028
85°	1645	3706	4820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	3.1
10°-20°	592.0	8.9
20°-30°	899.3	13.6
30°-40°	1089.4	16.5
40°-50°	1146.2	17.3
50°-60°	1065.7	16.1
60°-70°	858.1	13.0
70°-80°	555.8	8.4
80°-90°	208.4	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°	1697.4	25.6
0°-40°	2786.8	42.1
0°-60°	4998.6	75.5
0°-90°	6621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2169	2169	2169	2169	2169	
5°	2176	2172	2160	2172	2169	206
15°	2085	2093	2088	2114	2109	591
25°	1936	1934	1939	1973	1980	892
35°	1701	1714	1736	1766	1782	1066
45°	1430	1449	1484	1516	1533	1103
55°	1123	1151	1194	1242	1257	1001
65°	772	807	874	926	951	768
75°	415	457	533	595	618	441
85°	94	138	211	263	274	115
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2169.2	2169.2	2169.2	2169.2	2169.2
2.5°	2173.9	2173.9	2148.6	2175.5	2164.4
5°	2175.5	2172.4	2159.7	2172.4	2169.2
7.5°	2153.3	2156.5	2145.4	2161.3	2172.4
10°	2137.5	2140.6	2124.8	2150.2	2150.2
12.5°	2116.9	2120.0	2113.7	2137.5	2132.7
15°	2085.1	2093.1	2088.3	2113.7	2108.9
17.5°	2067.7	2061.4	2056.6	2075.6	2085.1
20°	2036.0	2021.7	2021.7	2047.1	2053.4
22.5°	1985.3	1980.5	1982.1	2013.8	2007.5
25°	1936.1	1934.5	1939.3	1972.6	1980.5
27.5°	1886.9	1883.8	1898.0	1929.8	1936.1
30°	1820.3	1826.7	1845.7	1880.6	1888.5
32.5°	1764.8	1775.9	1793.4	1826.7	1836.2
35°	1701.4	1714.1	1736.3	1766.4	1782.3
37.5°	1645.9	1653.8	1677.6	1706.2	1725.2
40°	1568.2	1588.8	1615.8	1657.0	1661.8
42.5°	1498.5	1519.1	1554.0	1598.4	1593.6
45°	1430.3	1449.3	1484.2	1515.9	1533.3
47.5°	1357.3	1374.8	1420.8	1458.8	1471.5
50°	1281.2	1303.4	1343.1	1382.7	1397.0
52.5°	1195.6	1219.4	1270.1	1312.9	1333.5
55°	1122.7	1151.2	1194.0	1241.6	1257.4
57.5°	1041.8	1065.6	1117.9	1165.5	1181.3
60°	951.4	979.9	1033.9	1084.6	1108.4
62.5°	864.2	895.9	953.0	1005.3	1024.3
65°	772.2	807.1	873.7	926.0	951.4
67.5°	692.9	721.5	786.5	845.2	872.1
70°	596.2	634.3	702.4	767.5	788.1
72.5°	510.6	543.9	615.2	680.3	705.6
75°	415.4	456.7	532.8	594.6	618.4
77.5°	328.2	371.0	447.2	512.2	539.1
80°	244.2	285.4	364.7	431.3	456.7
82.5°	164.9	206.1	285.4	350.4	379.0
85°	93.6	138.0	210.9	263.2	274.3
87.5°	41.2	79.3	118.9	142.7	152.2
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	15.86	17.54	16.22	17.85	18.17	16.53	18.21	16.90	18.53	18.84
	3H	17.71	19.24	18.09	19.56	19.92	18.75	20.28	19.12	20.60	20.96
	4H	18.40	19.84	18.79	20.19	20.56	19.71	21.16	20.11	21.50	21.88
	6H	18.89	20.23	19.30	20.59	20.98	20.60	21.95	21.01	22.31	22.70
	8H	19.04	20.32	19.46	20.71	21.11	21.01	22.29	21.43	22.68	23.08
	12H	19.12	20.36	19.55	20.74	21.17	21.37	22.60	21.80	22.98	23.41
4H	2H	16.65	18.09	17.05	18.44	18.81	17.17	18.61	17.57	18.96	19.33
	3H	18.74	19.96	19.15	20.35	20.75	19.63	20.85	20.04	21.25	21.65
	4H	19.56	20.67	19.99	21.08	21.51	20.76	21.87	21.19	22.28	22.71
	6H	20.18	21.16	20.63	21.60	22.05	21.83	22.80	22.28	23.24	23.70
	8H	20.38	21.29	20.84	21.74	22.20	22.32	23.23	22.78	23.67	24.14
	12H	20.51	21.34	20.99	21.81	22.28	22.77	23.60	23.25	24.07	24.54
8H	4H	20.07	20.98	20.52	21.42	21.88	21.10	22.02	21.56	22.46	22.92
	6H	20.85	21.62	21.34	22.10	22.58	22.35	23.12	22.84	23.60	24.08
	8H	21.13	21.82	21.64	22.33	22.81	22.97	23.66	23.48	24.17	24.65
	12H	21.35	21.96	21.86	22.45	23.01	23.58	24.20	24.09	24.69	25.24
12H	4H	20.17	21.00	20.65	21.47	21.94	21.14	21.97	21.62	22.44	22.91
	6H	21.02	21.71	21.52	22.21	22.70	22.42	23.12	22.93	23.62	24.10
	8H	21.39	22.00	21.89	22.49	23.05	23.13	23.74	23.63	24.23	24.79