

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: P1588796

Luminaire Tested: 24CZSP-A-65-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588796
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-65-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

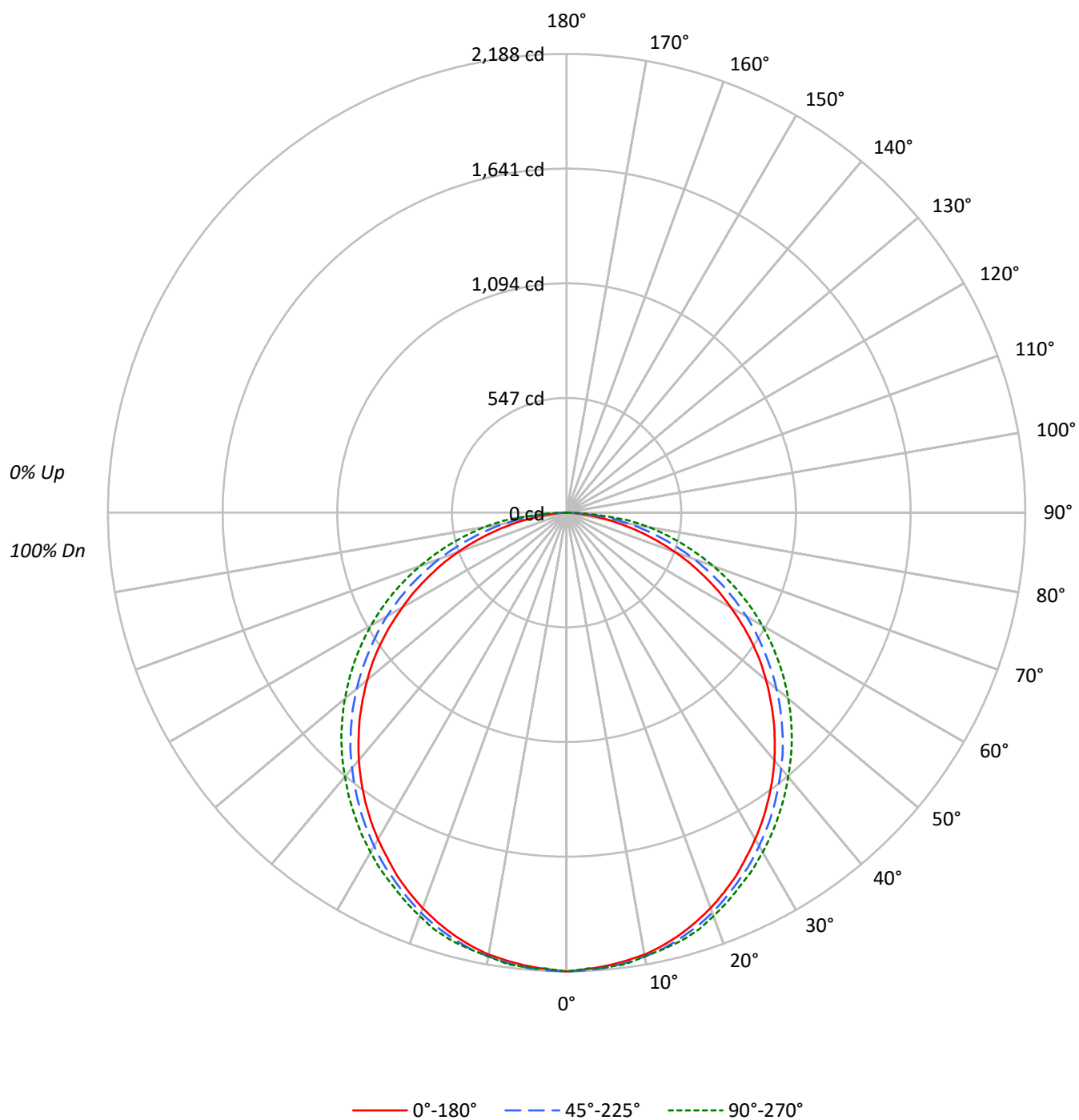
Lumens per Lamp: N/A
Luminaire Lumens: 6389.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	3352	3352	3352
5°	3337	3350	3347
10°	3329	3345	3342
15°	3306	3332	3352
20°	3272	3311	3338
25°	3232	3277	3317
30°	3181	3248	3308
35°	3135	3216	3298
40°	3083	3184	3288
45°	3024	3152	3292
50°	2960	3113	3290
55°	2883	3070	3294
60°	2774	3036	3302
65°	2647	2977	3313
70°	2467	2894	3327
75°	2198	2779	3360
80°	1818	2646	3524
85°	1183	2390	3079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3635 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	3.2
10°-20°	592.6	9.3
20°-30°	893.8	14.0
30°-40°	1076.5	16.8
40°-50°	1124.3	17.6
50°-60°	1032.5	16.2
60°-70°	813.2	12.7
70°-80°	498.9	7.8
80°-90°	150.1	2.3
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°	1693.4	26.5
0°-40°	2769.9	43.4
0°-60°	4926.7	77.1
0°-90°	6389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2188	2188	2188	2188	2188	
5°	2170	2173	2179	2186	2177	206
15°	2085	2089	2102	2114	2114	588
25°	1912	1916	1939	1963	1963	880
35°	1677	1685	1720	1755	1764	1049
45°	1396	1412	1455	1506	1520	1077
55°	1080	1099	1150	1214	1234	964
65°	730	756	822	890	914	723
75°	372	401	470	544	568	394
85°	67	92	136	172	175	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2188.4	2188.4	2188.4	2188.4	2188.4
2.5°	2180.0	2184.2	2185.6	2187.0	2177.2
5°	2170.2	2173.0	2178.6	2185.6	2177.2
7.5°	2156.2	2159.0	2166.0	2175.8	2171.6
10°	2140.7	2142.1	2150.6	2157.6	2149.1
12.5°	2115.5	2119.7	2129.5	2135.1	2132.3
15°	2084.7	2088.9	2101.5	2114.1	2114.1
17.5°	2048.2	2053.8	2069.2	2086.1	2087.5
20°	2007.6	2011.8	2031.4	2048.2	2048.2
22.5°	1961.3	1966.9	1986.5	2004.8	2007.6
25°	1912.2	1916.4	1938.9	1962.7	1962.7
27.5°	1854.7	1863.2	1891.2	1915.0	1920.6
30°	1798.7	1805.7	1836.5	1866.0	1870.2
32.5°	1739.8	1748.2	1780.4	1812.7	1819.7
35°	1676.7	1685.1	1720.2	1755.2	1763.6
37.5°	1610.8	1620.6	1657.1	1697.7	1706.1
40°	1542.1	1553.3	1592.6	1636.0	1644.5
42.5°	1469.2	1484.6	1526.7	1571.6	1584.2
45°	1396.3	1411.7	1455.2	1505.7	1519.7
47.5°	1319.2	1337.4	1382.3	1435.6	1451.0
50°	1242.1	1260.3	1306.6	1364.1	1380.9
52.5°	1163.6	1181.8	1229.5	1289.8	1308.0
55°	1079.5	1099.1	1149.6	1214.1	1233.7
57.5°	992.6	1017.8	1071.1	1137.0	1156.6
60°	905.6	930.9	991.2	1055.6	1078.1
62.5°	820.1	844.0	905.6	974.3	998.2
65°	730.4	755.6	821.5	890.2	914.1
67.5°	642.1	667.3	733.2	804.7	829.9
70°	551.0	579.0	646.3	717.8	743.0
72.5°	459.8	489.3	558.0	630.9	654.7
75°	371.5	401.0	469.6	543.9	567.8
77.5°	284.6	316.8	384.1	459.8	482.3
80°	206.1	236.9	300.0	374.3	399.5
82.5°	131.8	158.4	221.5	291.6	309.8
85°	67.3	92.5	136.0	172.4	175.2
87.5°	21.0	29.4	44.9	67.3	68.7
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	15.68	17.34	16.05	17.66	17.97	16.51	18.17	16.88	18.49	18.80
	3H	17.44	18.94	17.81	19.27	19.63	18.63	20.13	19.00	20.46	20.82
	4H	18.05	19.48	18.45	19.82	20.20	19.52	20.94	19.91	21.29	21.66
	6H	18.47	19.79	18.88	20.15	20.54	20.30	21.62	20.71	21.98	22.37
	8H	18.57	19.84	19.00	20.22	20.62	20.62	21.88	21.04	22.27	22.67
	12H	18.62	19.84	19.05	20.22	20.65	20.83	22.04	21.26	22.42	22.85
4H	2H	16.45	17.87	16.85	18.22	18.60	17.10	18.52	17.50	18.87	19.24
	3H	18.43	19.63	18.84	20.02	20.42	19.45	20.65	19.86	21.05	21.45
	4H	19.17	20.25	19.60	20.66	21.10	20.51	21.59	20.94	22.00	22.44
	6H	19.69	20.65	20.15	21.09	21.54	21.46	22.41	21.91	22.85	23.30
	8H	19.84	20.73	20.30	21.17	21.64	21.86	22.75	22.31	23.19	23.65
	12H	19.92	20.73	20.40	21.20	21.67	22.13	22.94	22.61	23.41	23.88
8H	4H	19.63	20.52	20.08	20.96	21.42	20.79	21.69	21.25	22.13	22.59
	6H	20.29	21.03	20.78	21.52	21.99	21.91	22.65	22.40	23.14	23.61
	8H	20.50	21.17	21.00	21.67	22.15	22.42	23.09	22.93	23.59	24.08
	12H	20.64	21.23	21.14	21.72	22.28	22.80	23.40	23.31	23.88	24.44
12H	4H	19.71	20.52	20.19	20.99	21.46	20.82	21.62	21.30	22.10	22.57
	6H	20.42	21.09	20.93	21.59	22.08	21.95	22.62	22.46	23.13	23.61
	8H	20.70	21.29	21.20	21.78	22.34	22.53	23.12	23.04	23.61	24.17