

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: P1588799

Luminaire Tested: 24CZSP-A-65-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588799
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-L845
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 6000 lumens, 80CRI, Ribbed Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

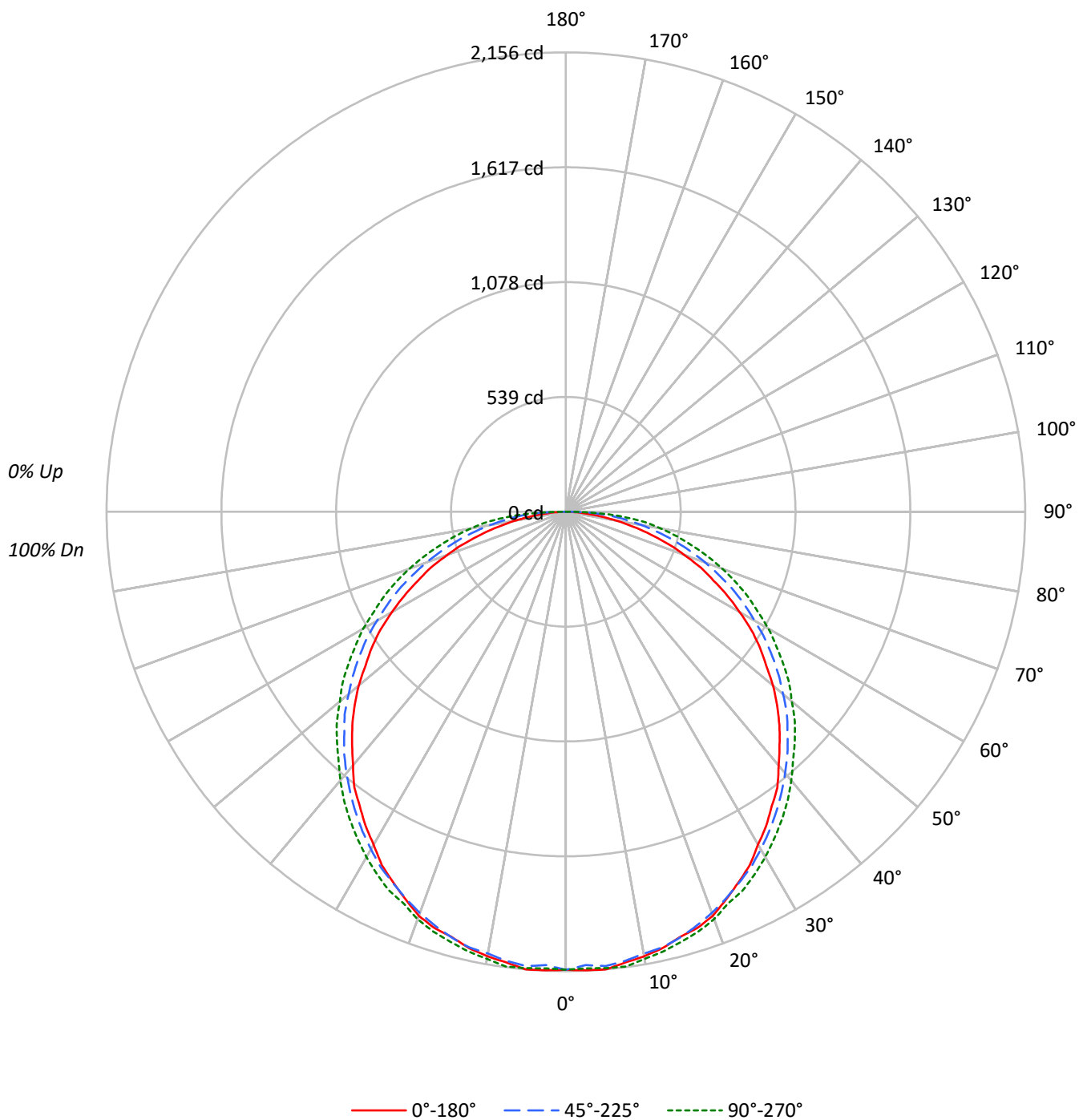
Lumens per Lamp: N/A
Luminaire Lumens: 6561.0 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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
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	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3292	3292	3292
5°	3314	3290	3305
10°	3294	3275	3314
15°	3276	3281	3314
20°	3288	3265	3317
25°	3242	3248	3317
30°	3190	3235	3310
35°	3152	3217	3302
40°	3107	3201	3292
45°	3070	3186	3291
50°	3025	3171	3298
55°	2971	3160	3327
60°	2888	3138	3364
65°	2773	3138	3417
70°	2646	3117	3497
75°	2436	3125	3626
80°	2135	3188	3991
85°	1629	3673	4776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5295 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	3.1
10°-20°	586.7	8.9
20°-30°	891.2	13.6
30°-40°	1079.6	16.5
40°-50°	1135.8	17.3
50°-60°	1056.0	16.1
60°-70°	850.3	13.0
70°-80°	550.8	8.4
80°-90°	206.6	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°	1682.0	25.6
0°-40°	2761.5	42.1
0°-60°	4953.3	75.5
0°-90°	6561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2156	2153	2140	2153	2150	204
15°	2066	2074	2069	2094	2090	585
25°	1919	1917	1922	1955	1962	884
35°	1686	1699	1721	1750	1766	1056
45°	1417	1436	1471	1502	1519	1093
55°	1112	1141	1183	1230	1246	992
65°	765	800	866	918	943	761
75°	412	452	528	589	613	438
85°	93	137	209	261	272	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2149.5	2149.5	2149.5	2149.5	2149.5
2.5°	2154.2	2154.2	2129.1	2155.8	2144.8
5°	2155.8	2152.7	2140.1	2152.7	2149.5
7.5°	2133.8	2137.0	2126.0	2141.7	2152.7
10°	2118.1	2121.2	2105.5	2130.7	2130.7
12.5°	2097.7	2100.8	2094.5	2118.1	2113.4
15°	2066.3	2074.1	2069.4	2094.5	2089.8
17.5°	2049.0	2042.7	2038.0	2056.8	2066.3
20°	2017.5	2003.4	2003.4	2028.5	2034.8
22.5°	1967.3	1962.5	1964.1	1995.5	1989.3
25°	1918.6	1917.0	1921.7	1954.7	1962.5
27.5°	1869.8	1866.7	1880.8	1912.3	1918.6
30°	1803.8	1810.1	1829.0	1863.6	1871.4
32.5°	1748.9	1759.9	1777.1	1810.1	1819.6
35°	1686.0	1698.6	1720.6	1750.4	1766.1
37.5°	1631.0	1638.9	1662.4	1690.7	1709.6
40°	1554.0	1574.4	1601.1	1642.0	1646.7
42.5°	1484.9	1505.3	1539.9	1583.9	1579.2
45°	1417.3	1436.2	1470.7	1502.2	1519.4
47.5°	1345.0	1362.3	1407.9	1445.6	1458.2
50°	1269.6	1291.6	1330.9	1370.2	1384.3
52.5°	1184.8	1208.3	1258.6	1301.0	1321.5
55°	1112.5	1140.8	1183.2	1230.3	1246.0
57.5°	1032.3	1055.9	1107.8	1154.9	1170.6
60°	942.8	971.1	1024.5	1074.8	1098.3
62.5°	856.4	887.8	944.3	996.2	1015.1
65°	765.2	799.8	865.8	917.6	942.8
67.5°	686.7	714.9	779.4	837.5	864.2
70°	590.8	628.5	696.1	760.5	780.9
72.5°	506.0	539.0	609.7	674.1	699.2
75°	411.7	452.5	528.0	589.2	612.8
77.5°	325.3	367.7	443.1	507.5	534.2
80°	242.0	282.8	361.4	427.4	452.5
82.5°	163.4	204.3	282.8	347.3	375.5
85°	92.7	136.7	209.0	260.8	271.8
87.5°	40.9	78.6	117.8	141.4	150.8
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	15.82	17.51	16.19	17.82	18.13	16.50	18.18	16.86	18.49	18.81
	3H	17.68	19.21	18.05	19.53	19.89	18.72	20.25	19.09	20.57	20.93
	4H	18.36	19.81	18.76	20.16	20.53	19.68	21.12	20.08	21.47	21.85
	6H	18.86	20.20	19.27	20.56	20.95	20.57	21.91	20.98	22.28	22.67
	8H	19.00	20.29	19.43	20.68	21.07	20.98	22.26	21.40	22.65	23.05
	12H	19.09	20.33	19.52	20.71	21.14	21.33	22.57	21.76	22.95	23.38
4H	2H	16.62	18.06	17.01	18.41	18.78	17.14	18.58	17.53	18.93	19.30
	3H	18.71	19.93	19.11	20.32	20.72	19.60	20.82	20.01	21.21	21.61
	4H	19.52	20.64	19.96	21.05	21.48	20.73	21.84	21.16	22.25	22.68
	6H	20.15	21.13	20.60	21.56	22.02	21.80	22.77	22.25	23.21	23.66
	8H	20.35	21.26	20.81	21.70	22.17	22.29	23.20	22.74	23.64	24.11
	12H	20.48	21.31	20.96	21.78	22.25	22.74	23.57	23.22	24.04	24.51
8H	4H	20.03	20.95	20.49	21.39	21.85	21.07	21.98	21.53	22.42	22.89
	6H	20.82	21.59	21.31	22.07	22.54	22.32	23.09	22.81	23.57	24.04
	8H	21.10	21.79	21.61	22.30	22.78	22.94	23.63	23.45	24.14	24.62
	12H	21.32	21.93	21.82	22.42	22.98	23.55	24.17	24.06	24.65	25.21
12H	4H	20.14	20.97	20.62	21.44	21.91	21.11	21.93	21.59	22.41	22.87
	6H	20.99	21.68	21.49	22.18	22.66	22.39	23.08	22.90	23.59	24.07
	8H	21.36	21.97	21.86	22.46	23.01	23.10	23.71	23.60	24.20	24.76