

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: P1588455

Luminaire Tested: 24CZSP-65-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588455
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-65-L835
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 6000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

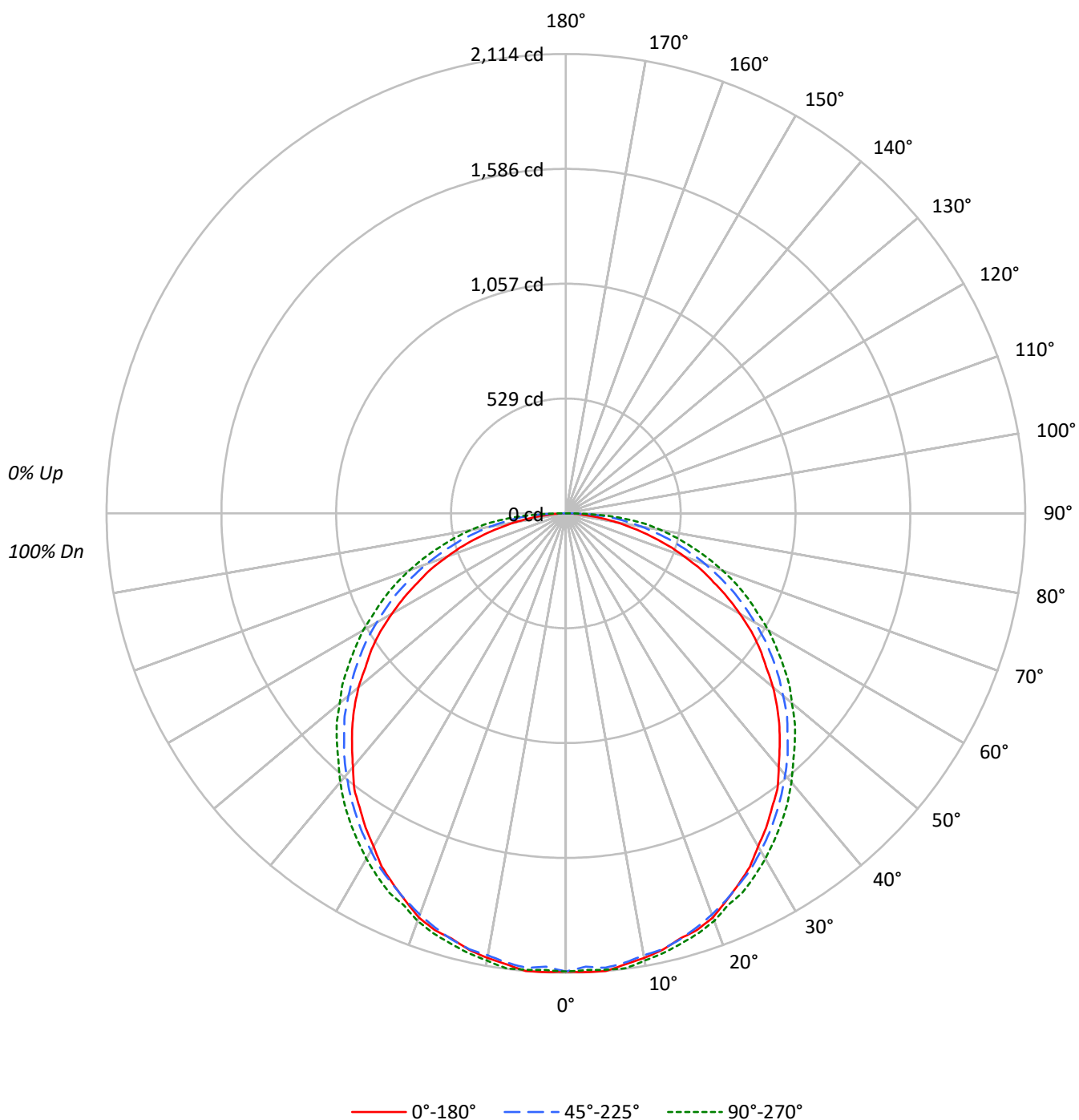
Lumens per Lamp: N/A
Luminaire Lumens: 6435.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	3229	3229	3229
5°	3251	3227	3241
10°	3231	3212	3250
15°	3213	3218	3250
20°	3225	3203	3253
25°	3180	3185	3253
30°	3129	3173	3246
35°	3092	3155	3239
40°	3047	3140	3229
45°	3011	3125	3228
50°	2967	3110	3235
55°	2914	3099	3263
60°	2833	3078	3300
65°	2720	3078	3351
70°	2595	3057	3430
75°	2390	3064	3557
80°	2093	3127	3914
85°	1597	3603	4685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 5193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	3.1
10°-20°	575.4	8.9
20°-30°	874.1	13.6
30°-40°	1058.8	16.5
40°-50°	1114.0	17.3
50°-60°	1035.7	16.1
60°-70°	834.0	13.0
70°-80°	540.2	8.4
80°-90°	202.6	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°	1649.7	25.6
0°-40°	2708.5	42.1
0°-60°	4858.2	75.5
0°-90°	6435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2114	2111	2099	2111	2108	200
15°	2027	2034	2030	2054	2050	574
25°	1882	1880	1885	1917	1925	867
35°	1654	1666	1688	1717	1732	1036
45°	1390	1409	1442	1473	1490	1072
55°	1091	1119	1160	1207	1222	973
65°	750	784	849	900	925	746
75°	404	444	518	578	601	429
85°	91	134	205	256	267	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2108.3	2108.3	2108.3	2108.3	2108.3
2.5°	2112.9	2112.9	2088.2	2114.4	2103.6
5°	2114.4	2111.3	2099.0	2111.3	2108.3
7.5°	2092.8	2095.9	2085.1	2100.5	2111.3
10°	2077.4	2080.5	2065.1	2089.8	2089.8
12.5°	2057.4	2060.5	2054.3	2077.4	2072.8
15°	2026.6	2034.3	2029.7	2054.3	2049.7
17.5°	2009.6	2003.5	1998.8	2017.3	2026.6
20°	1978.8	1964.9	1964.9	1989.6	1995.7
22.5°	1929.5	1924.9	1926.4	1957.2	1951.1
25°	1881.7	1880.2	1884.8	1917.2	1924.9
27.5°	1833.9	1830.9	1844.7	1875.5	1881.7
30°	1769.2	1775.4	1793.9	1827.8	1835.5
32.5°	1715.3	1726.1	1743.0	1775.4	1784.6
35°	1653.6	1666.0	1687.5	1716.8	1732.2
37.5°	1599.7	1607.4	1630.5	1658.2	1676.7
40°	1524.2	1544.2	1570.4	1610.5	1615.1
42.5°	1456.4	1476.4	1510.3	1553.4	1548.8
45°	1390.1	1408.6	1442.5	1473.3	1490.3
47.5°	1319.2	1336.2	1380.8	1417.8	1430.2
50°	1245.2	1266.8	1305.3	1343.9	1357.7
52.5°	1162.0	1185.1	1234.4	1276.0	1296.1
55°	1091.1	1118.9	1160.5	1206.7	1222.1
57.5°	1012.5	1035.6	1086.5	1132.7	1148.1
60°	924.7	952.4	1004.8	1054.1	1077.2
62.5°	839.9	870.7	926.2	977.1	995.6
65°	750.5	784.4	849.2	900.0	924.7
67.5°	673.5	701.2	764.4	821.4	847.6
70°	579.5	616.4	682.7	745.9	765.9
72.5°	496.2	528.6	598.0	661.1	685.8
75°	403.8	443.8	517.8	577.9	601.0
77.5°	319.0	360.6	434.6	497.8	524.0
80°	237.3	277.4	354.5	419.2	443.8
82.5°	160.3	200.3	277.4	340.6	368.3
85°	90.9	134.1	205.0	255.8	266.6
87.5°	40.1	77.1	115.6	138.7	147.9
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	15.76	17.44	16.12	17.75	18.07	16.43	18.11	16.80	18.43	18.74
	3H	17.61	19.14	17.99	19.46	19.82	18.65	20.18	19.03	20.50	20.86
	4H	18.30	19.74	18.69	20.09	20.46	19.61	21.06	20.01	21.40	21.78
	6H	18.79	20.13	19.20	20.49	20.88	20.50	21.85	20.91	22.21	22.60
	8H	18.94	20.22	19.36	20.61	21.01	20.91	22.19	21.33	22.58	22.98
	12H	19.03	20.26	19.45	20.64	21.07	21.27	22.50	21.70	22.88	23.31
4H	2H	16.55	17.99	16.95	18.34	18.72	17.07	18.51	17.47	18.86	19.23
	3H	18.64	19.86	19.05	20.25	20.65	19.53	20.75	19.94	21.15	21.55
	4H	19.46	20.57	19.89	20.98	21.41	20.66	21.77	21.09	22.18	22.61
	6H	20.08	21.06	20.53	21.50	21.95	21.73	22.70	22.18	23.14	23.60
	8H	20.28	21.20	20.74	21.64	22.10	22.22	23.13	22.68	23.58	24.04
	12H	20.41	21.24	20.89	21.71	22.18	22.67	23.50	23.15	23.97	24.44
8H	4H	19.97	20.88	20.42	21.32	21.79	21.00	21.92	21.46	22.36	22.82
	6H	20.75	21.52	21.24	22.00	22.48	22.25	23.02	22.74	23.50	23.98
	8H	21.03	21.73	21.54	22.23	22.71	22.87	23.56	23.38	24.07	24.55
	12H	21.25	21.86	21.76	22.35	22.91	23.49	24.10	23.99	24.59	25.14
12H	4H	20.07	20.90	20.55	21.37	21.84	21.04	21.87	21.52	22.34	22.81
	6H	20.92	21.61	21.42	22.11	22.60	22.32	23.02	22.83	23.52	24.00
	8H	21.29	21.90	21.79	22.39	22.95	23.03	23.64	23.53	24.13	24.69