

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: P1588466

Luminaire Tested: 24CZSP-65-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588466
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-65-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 6000 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

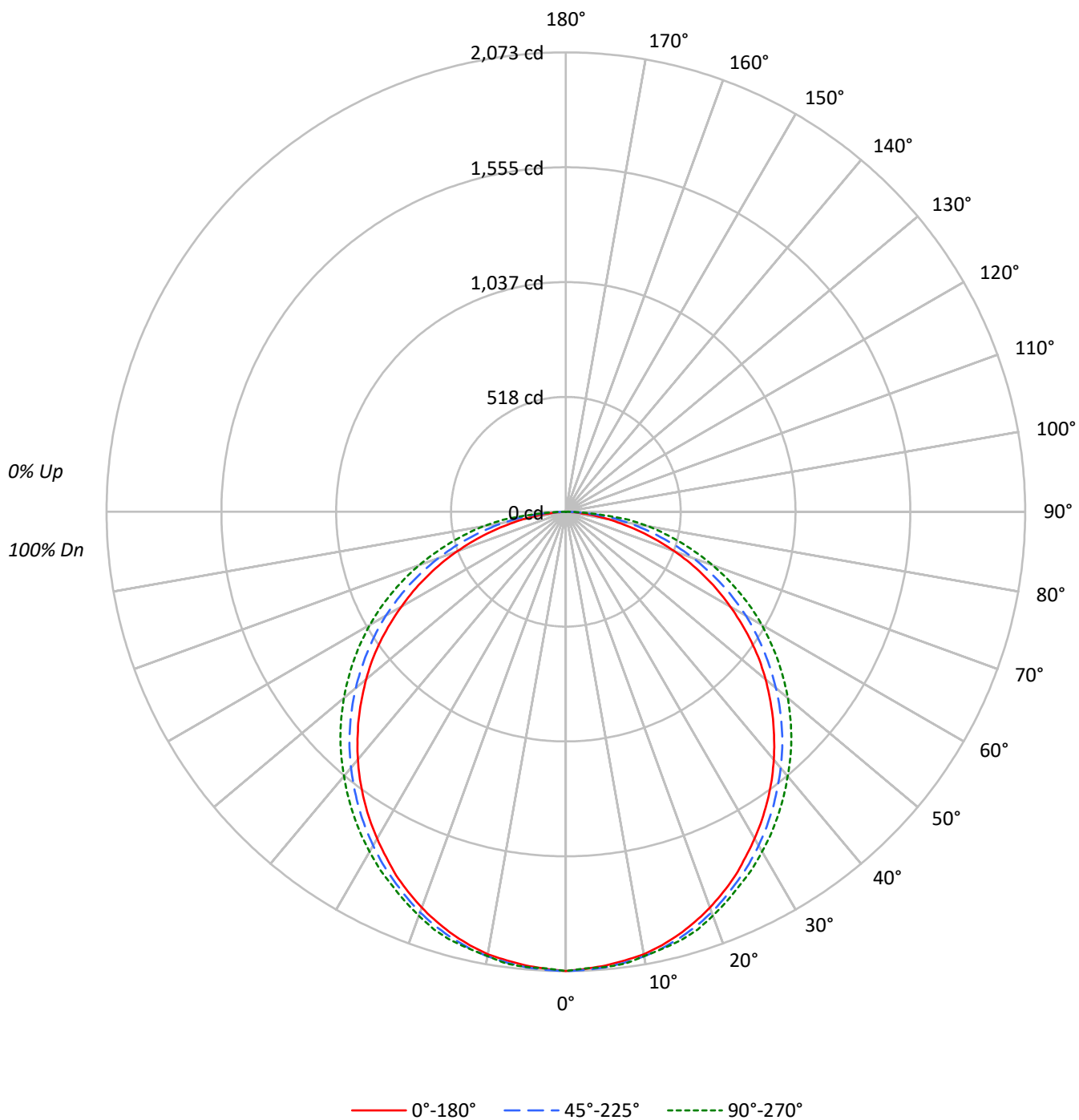
Lumens per Lamp: N/A
Luminaire Lumens: 6051.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

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	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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83		
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69		
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57		
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3174	3174	3174
5°	3160	3172	3170
10°	3153	3168	3166
15°	3131	3156	3175
20°	3099	3136	3162
25°	3061	3103	3141
30°	3013	3076	3132
35°	2969	3046	3123
40°	2920	3016	3114
45°	2864	2985	3118
50°	2803	2949	3116
55°	2730	2907	3120
60°	2627	2875	3128
65°	2507	2820	3137
70°	2337	2741	3151
75°	2082	2632	3182
80°	1722	2506	3338
85°	1119	2263	2917

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3443 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	3.2
10°-20°	561.3	9.3
20°-30°	846.5	14.0
30°-40°	1019.6	16.8
40°-50°	1064.8	17.6
50°-60°	977.9	16.2
60°-70°	770.2	12.7
70°-80°	472.5	7.8
80°-90°	142.2	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°	1603.8	26.5
0°-40°	2623.4	43.4
0°-60°	4666.1	77.1
0°-90°	6051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2055	2058	2063	2070	2062	195
15°	1974	1978	1990	2002	2002	557
25°	1811	1815	1836	1859	1859	834
35°	1588	1596	1629	1662	1670	993
45°	1322	1337	1378	1426	1439	1020
55°	1022	1041	1089	1150	1168	913
65°	692	716	778	843	866	684
75°	352	380	445	515	538	373
85°	64	88	129	163	166	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.6	2072.6	2072.6	2072.6	2072.6
2.5°	2064.7	2068.6	2070.0	2071.3	2062.0
5°	2055.4	2058.0	2063.3	2070.0	2062.0
7.5°	2042.1	2044.7	2051.4	2060.7	2056.7
10°	2027.5	2028.8	2036.8	2043.4	2035.5
12.5°	2003.6	2007.6	2016.9	2022.2	2019.5
15°	1974.4	1978.4	1990.3	2002.3	2002.3
17.5°	1939.9	1945.2	1959.8	1975.7	1977.0
20°	1901.3	1905.3	1923.9	1939.9	1939.9
22.5°	1857.5	1862.8	1881.4	1898.7	1901.3
25°	1811.1	1815.0	1836.3	1858.9	1858.9
27.5°	1756.6	1764.6	1791.1	1813.7	1819.0
30°	1703.5	1710.2	1739.4	1767.2	1771.2
32.5°	1647.7	1655.7	1686.3	1716.8	1723.4
35°	1588.0	1596.0	1629.2	1662.4	1670.3
37.5°	1525.6	1534.9	1569.4	1607.9	1615.9
40°	1460.5	1471.2	1508.3	1549.5	1557.5
42.5°	1391.5	1406.1	1445.9	1488.4	1500.4
45°	1322.4	1337.1	1378.2	1426.0	1439.3
47.5°	1249.4	1266.7	1309.2	1359.6	1374.2
50°	1176.4	1193.7	1237.5	1291.9	1307.8
52.5°	1102.0	1119.3	1164.4	1221.5	1238.8
55°	1022.4	1041.0	1088.8	1149.8	1168.4
57.5°	940.1	964.0	1014.4	1076.8	1095.4
60°	857.7	881.6	938.7	999.8	1021.0
62.5°	776.7	799.3	857.7	922.8	945.4
65°	691.8	715.7	778.1	843.1	865.7
67.5°	608.1	632.0	694.4	762.1	786.0
70°	521.8	548.4	612.1	679.8	703.7
72.5°	435.5	463.4	528.4	597.5	620.1
75°	351.9	379.7	444.8	515.2	537.7
77.5°	269.5	300.1	363.8	435.5	456.7
80°	195.2	224.4	284.1	354.5	378.4
82.5°	124.8	150.0	209.8	276.2	293.4
85°	63.7	87.6	128.8	163.3	166.0
87.5°	19.9	27.9	42.5	63.7	65.1
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	15.49	17.15	15.86	17.47	17.78	16.32	17.98	16.69	18.30	18.61
	3H	17.25	18.75	17.62	19.08	19.44	18.44	19.95	18.81	20.27	20.63
	4H	17.87	19.29	18.26	19.64	20.01	19.33	20.75	19.72	21.10	21.47
	6H	18.28	19.60	18.69	19.96	20.35	20.11	21.43	20.52	21.79	22.18
	8H	18.38	19.65	18.81	20.04	20.43	20.43	21.69	20.85	22.08	22.48
	12H	18.44	19.65	18.86	20.03	20.46	20.64	21.85	21.07	22.23	22.66
4H	2H	16.26	17.69	16.66	18.03	18.41	16.91	18.33	17.31	18.68	19.05
	3H	18.24	19.44	18.65	19.84	20.23	19.26	20.46	19.67	20.86	21.26
	4H	18.98	20.06	19.41	20.48	20.91	20.32	21.40	20.75	21.82	22.25
	6H	19.51	20.46	19.96	20.90	21.35	21.27	22.22	21.72	22.66	23.11
	8H	19.65	20.54	20.11	20.99	21.45	21.67	22.56	22.13	23.00	23.46
	12H	19.74	20.54	20.21	21.01	21.48	21.94	22.75	22.42	23.22	23.69
8H	4H	19.44	20.33	19.90	20.77	21.23	20.61	21.50	21.06	21.94	22.40
	6H	20.10	20.84	20.59	21.33	21.80	21.72	22.46	22.21	22.95	23.42
	8H	20.31	20.98	20.82	21.48	21.97	22.23	22.90	22.74	23.40	23.89
	12H	20.45	21.04	20.95	21.53	22.09	22.61	23.21	23.12	23.70	24.25
12H	4H	19.53	20.33	20.00	20.80	21.27	20.63	21.43	21.11	21.91	22.38
	6H	20.23	20.90	20.74	21.40	21.89	21.76	22.43	22.27	22.94	23.42
	8H	20.51	21.10	21.01	21.59	22.15	22.34	22.93	22.85	23.42	23.98