

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: P1588716

Luminaire Tested: 24CZSP-A-57-L840-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588716
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-57-L840-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

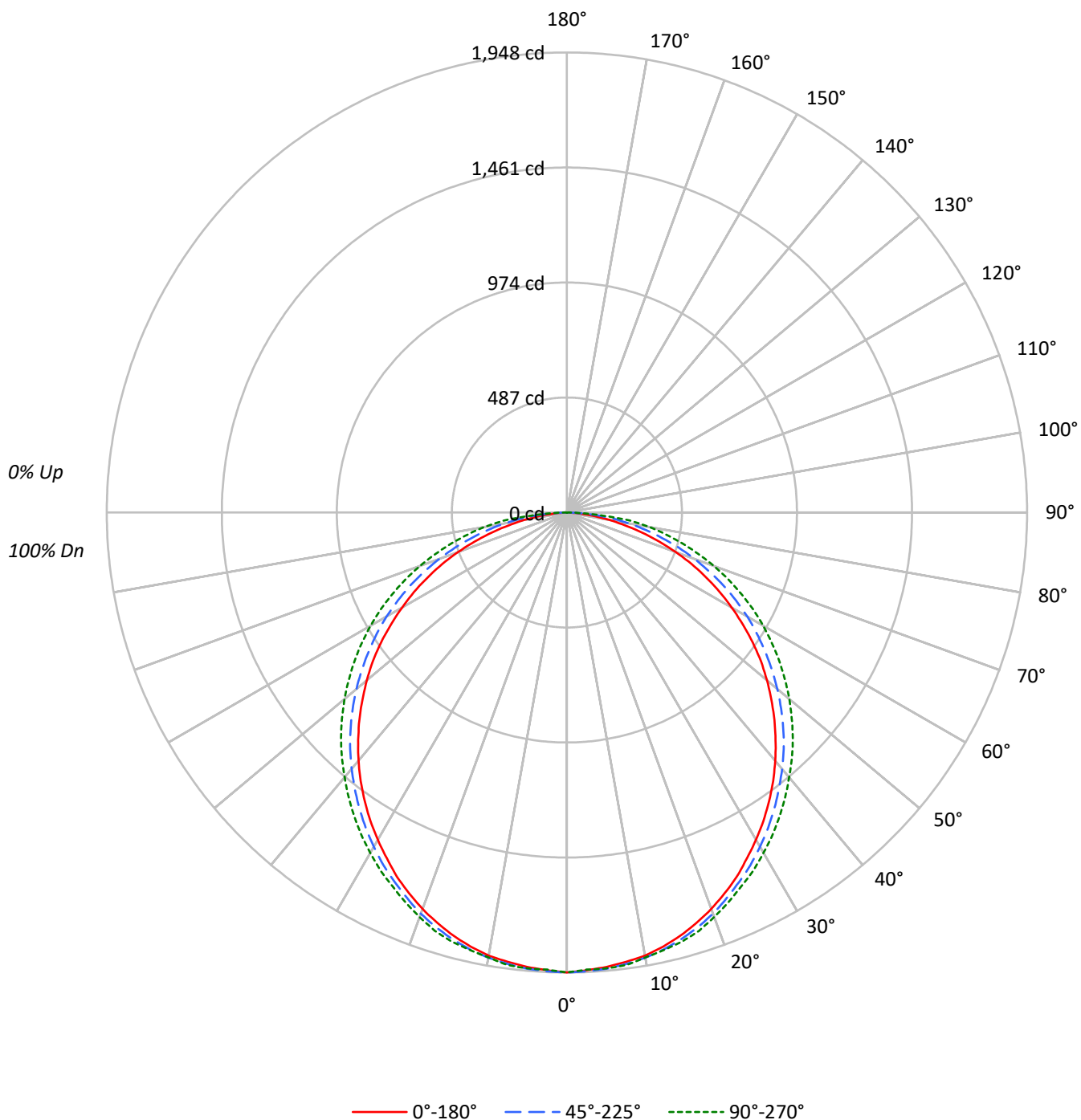
Lumens per Lamp: N/A
Luminaire Lumens: 5686.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	0
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°	2983	2983	2983
5°	2969	2981	2979
10°	2963	2977	2975
15°	2942	2966	2983
20°	2912	2947	2971
25°	2876	2916	2952
30°	2831	2891	2944
35°	2790	2862	2935
40°	2744	2834	2926
45°	2692	2805	2930
50°	2634	2771	2928
55°	2565	2732	2932
60°	2469	2702	2939
65°	2356	2650	2948
70°	2196	2576	2961
75°	1956	2474	2990
80°	1618	2355	3136
85°	1053	2126	2741

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	3.2
10°-20°	527.4	9.3
20°-30°	795.4	14.0
30°-40°	958.1	16.8
40°-50°	1000.6	17.6
50°-60°	918.9	16.2
60°-70°	723.8	12.7
70°-80°	444.0	7.8
80°-90°	133.6	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°	1507.0	26.5
0°-40°	2465.1	43.4
0°-60°	4384.6	77.1
0°-90°	5686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1948	1948	1948	1948	1948	
5°	1931	1934	1939	1945	1938	184
15°	1855	1859	1870	1882	1882	523
25°	1702	1706	1726	1747	1747	783
35°	1492	1500	1531	1562	1570	933
45°	1243	1256	1295	1340	1352	958
55°	961	978	1023	1080	1098	858
65°	650	672	731	792	814	643
75°	331	357	418	484	505	351
85°	60	82	121	154	156	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1947.6	1947.6	1947.6	1947.6	1947.6
2.5°	1940.1	1943.9	1945.1	1946.4	1937.6
5°	1931.4	1933.9	1938.9	1945.1	1937.6
7.5°	1918.9	1921.4	1927.6	1936.4	1932.6
10°	1905.2	1906.4	1913.9	1920.2	1912.7
12.5°	1882.7	1886.5	1895.2	1900.2	1897.7
15°	1855.3	1859.0	1870.3	1881.5	1881.5
17.5°	1822.8	1827.8	1841.6	1856.5	1857.8
20°	1786.7	1790.4	1807.9	1822.8	1822.8
22.5°	1745.5	1750.5	1767.9	1784.2	1786.7
25°	1701.8	1705.6	1725.5	1746.7	1746.7
27.5°	1650.7	1658.1	1683.1	1704.3	1709.3
30°	1600.8	1607.0	1634.4	1660.6	1664.4
32.5°	1548.4	1555.8	1584.5	1613.2	1619.5
35°	1492.2	1499.7	1530.9	1562.1	1569.6
37.5°	1433.6	1442.3	1474.7	1510.9	1518.4
40°	1372.4	1382.4	1417.3	1456.0	1463.5
42.5°	1307.6	1321.3	1358.7	1398.6	1409.9
45°	1242.7	1256.4	1295.1	1340.0	1352.5
47.5°	1174.1	1190.3	1230.2	1277.6	1291.3
50°	1105.4	1121.7	1162.8	1214.0	1229.0
52.5°	1035.6	1051.8	1094.2	1147.9	1164.1
55°	960.7	978.2	1023.1	1080.5	1097.9
57.5°	883.3	905.8	953.2	1011.9	1029.3
60°	806.0	828.5	882.1	939.5	959.5
62.5°	729.9	751.1	806.0	867.1	888.3
65°	650.0	672.5	731.1	792.3	813.5
67.5°	571.4	593.9	652.5	716.2	738.6
70°	490.3	515.3	575.2	638.8	661.3
72.5°	409.2	435.4	496.6	561.4	582.7
75°	330.6	356.8	418.0	484.1	505.3
77.5°	253.3	282.0	341.9	409.2	429.2
80°	183.4	210.9	267.0	333.1	355.6
82.5°	117.3	141.0	197.1	259.5	275.7
85°	59.9	82.3	121.0	153.5	156.0
87.5°	18.7	26.2	39.9	59.9	61.1
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	15.28	16.94	15.64	17.25	17.57	16.11	17.77	16.47	18.08	18.40
	3H	17.03	18.54	17.41	18.86	19.22	18.22	19.73	18.60	20.06	20.42
	4H	17.65	19.07	18.05	19.42	19.79	19.11	20.53	19.51	20.88	21.26
	6H	18.06	19.38	18.47	19.74	20.13	19.89	21.21	20.30	21.58	21.97
	8H	18.17	19.43	18.59	19.82	20.22	20.21	21.47	20.64	21.86	22.26
	12H	18.22	19.43	18.65	19.81	20.24	20.42	21.63	20.85	22.02	22.44
4H	2H	16.05	17.47	16.44	17.82	18.19	16.69	18.12	17.09	18.46	18.84
	3H	18.02	19.22	18.43	19.62	20.02	19.05	20.25	19.46	20.64	21.04
	4H	18.76	19.85	19.19	20.26	20.69	20.10	21.19	20.53	21.60	22.03
	6H	19.29	20.24	19.74	20.68	21.14	21.05	22.01	21.51	22.44	22.90
	8H	19.44	20.33	19.89	20.77	21.23	21.45	22.34	21.91	22.78	23.25
	12H	19.52	20.32	20.00	20.80	21.27	21.73	22.53	22.21	23.00	23.47
8H	4H	19.22	20.11	19.68	20.55	21.02	20.39	21.28	20.85	21.72	22.19
	6H	19.88	20.63	20.37	21.11	21.59	21.50	22.25	21.99	22.73	23.21
	8H	20.09	20.76	20.60	21.27	21.75	22.01	22.68	22.52	23.19	23.67
	12H	20.23	20.82	20.74	21.31	21.87	22.40	22.99	22.90	23.48	24.04
12H	4H	19.31	20.11	19.79	20.59	21.06	20.41	21.22	20.89	21.69	22.16
	6H	20.01	20.68	20.52	21.19	21.67	21.55	22.22	22.06	22.72	23.21
	8H	20.29	20.88	20.80	21.37	21.93	22.13	22.72	22.63	23.21	23.77