

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: P1588377

Luminaire Tested: 24CZSP-57-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588377
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-57-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

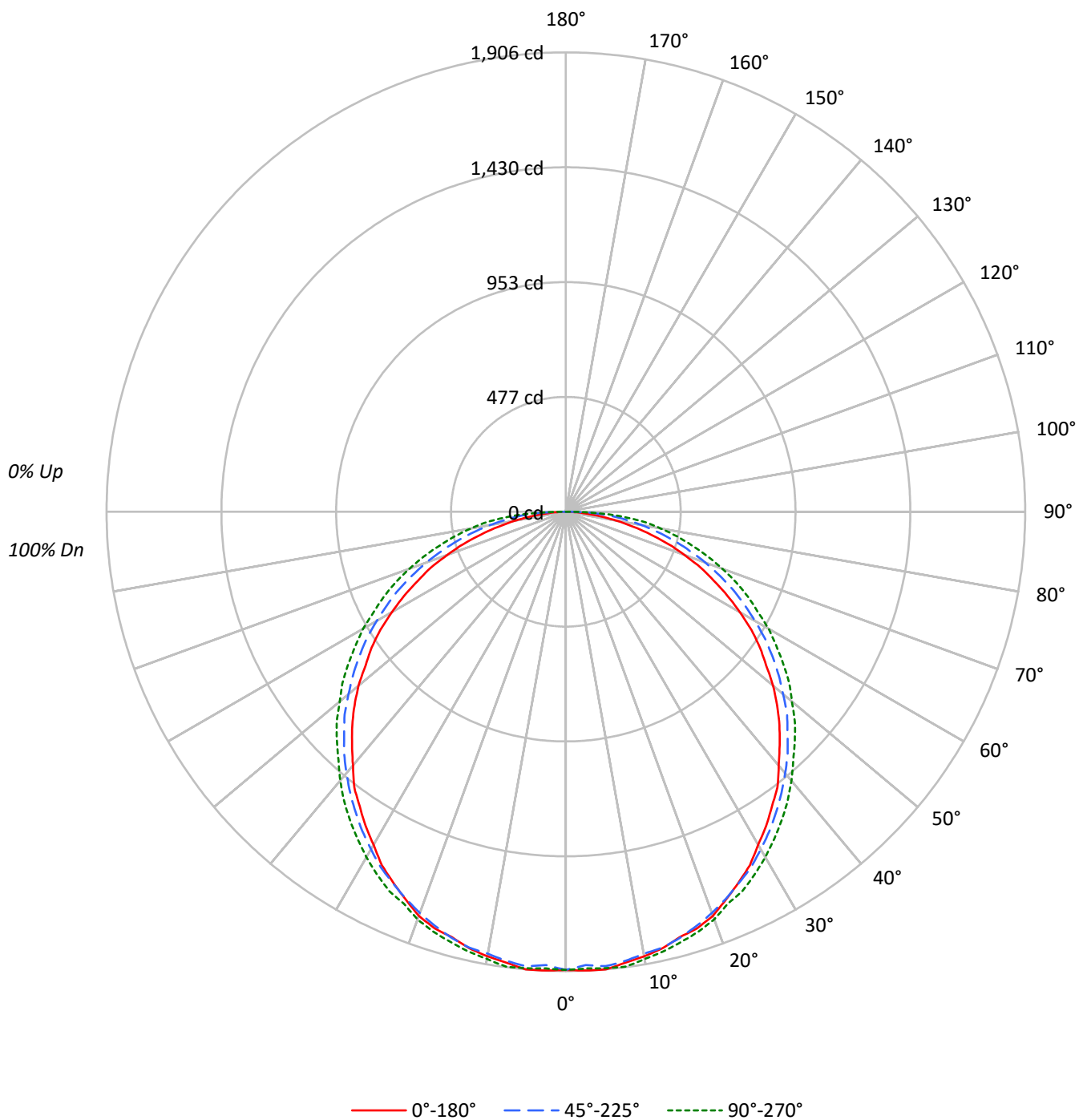
Lumens per Lamp: N/A
Luminaire Lumens: 5802.0 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 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	98	94	105	100	96	92	96	93	89		92	89	87		89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2911	2911	2911
5°	2931	2910	2923
10°	2913	2896	2930
15°	2897	2902	2930
20°	2908	2888	2933
25°	2867	2872	2933
30°	2821	2860	2927
35°	2788	2845	2920
40°	2748	2831	2912
45°	2715	2817	2911
50°	2675	2804	2917
55°	2627	2794	2942
60°	2554	2775	2975
65°	2452	2775	3021
70°	2340	2757	3093
75°	2155	2763	3207
80°	1888	2819	3530
85°	1441	3248	4225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 4684 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	3.1
10°-20°	518.8	8.9
20°-30°	788.1	13.6
30°-40°	954.7	16.5
40°-50°	1004.4	17.3
50°-60°	933.9	16.1
60°-70°	751.9	13.0
70°-80°	487.1	8.4
80°-90°	182.7	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°	1487.4	25.6
0°-40°	2442.1	42.1
0°-60°	4380.3	75.5
0°-90°	5802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1906	1904	1892	1904	1901	181
15°	1827	1834	1830	1852	1848	518
25°	1697	1695	1699	1729	1736	782
35°	1491	1502	1522	1548	1562	934
45°	1253	1270	1301	1328	1344	966
55°	984	1009	1046	1088	1102	877
65°	677	707	766	812	834	673
75°	364	400	467	521	542	387
85°	82	121	185	231	240	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.9	1900.9	1900.9	1900.9	1900.9
2.5°	1905.0	1905.0	1882.8	1906.4	1896.7
5°	1906.4	1903.6	1892.5	1903.6	1900.9
7.5°	1887.0	1889.8	1880.0	1893.9	1903.6
10°	1873.1	1875.9	1862.0	1884.2	1884.2
12.5°	1855.0	1857.8	1852.2	1873.1	1868.9
15°	1827.2	1834.2	1830.0	1852.2	1848.1
17.5°	1811.9	1806.4	1802.2	1818.9	1827.2
20°	1784.1	1771.6	1771.6	1793.9	1799.4
22.5°	1739.7	1735.5	1736.9	1764.7	1759.1
25°	1696.6	1695.2	1699.4	1728.6	1735.5
27.5°	1653.5	1650.8	1663.3	1691.0	1696.6
30°	1595.2	1600.7	1617.4	1648.0	1654.9
32.5°	1546.5	1556.3	1571.5	1600.7	1609.1
35°	1491.0	1502.1	1521.5	1547.9	1561.8
37.5°	1442.3	1449.3	1470.1	1495.1	1511.8
40°	1374.2	1392.3	1415.9	1452.1	1456.2
42.5°	1313.1	1331.2	1361.7	1400.6	1396.5
45°	1253.3	1270.0	1300.6	1328.4	1343.7
47.5°	1189.4	1204.7	1245.0	1278.4	1289.5
50°	1122.7	1142.2	1176.9	1211.7	1224.2
52.5°	1047.7	1068.5	1113.0	1150.5	1168.6
55°	983.8	1008.8	1046.3	1088.0	1101.9
57.5°	912.9	933.8	979.6	1021.3	1035.2
60°	833.7	858.7	906.0	950.4	971.3
62.5°	757.3	785.1	835.1	881.0	897.6
65°	676.7	707.3	765.6	811.5	833.7
67.5°	607.2	632.2	689.2	740.6	764.2
70°	522.5	555.8	615.6	672.5	690.6
72.5°	447.4	476.6	539.1	596.1	618.3
75°	364.1	400.2	466.9	521.1	541.9
77.5°	287.6	325.1	391.8	448.8	472.4
80°	214.0	250.1	319.6	378.0	400.2
82.5°	144.5	180.6	250.1	307.1	332.1
85°	82.0	120.9	184.8	230.7	240.4
87.5°	36.1	69.5	104.2	125.1	133.4
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	15.40	17.08	15.76	17.39	17.71	16.07	17.75	16.44	18.07	18.38
	3H	17.25	18.78	17.63	19.11	19.46	18.29	19.82	18.67	20.14	20.50
	4H	17.94	19.38	18.34	19.73	20.10	19.25	20.70	19.65	21.04	21.42
	6H	18.43	19.77	18.84	20.14	20.53	20.14	21.49	20.55	21.85	22.24
	8H	18.58	19.86	19.00	20.25	20.65	20.55	21.83	20.97	22.22	22.62
	12H	18.67	19.90	19.09	20.28	20.71	20.91	22.14	21.34	22.52	22.95
4H	2H	16.19	17.63	16.59	17.98	18.36	16.71	18.15	17.11	18.50	18.88
	3H	18.28	19.50	18.69	19.90	20.29	19.17	20.39	19.58	20.79	21.19
	4H	19.10	20.21	19.53	20.62	21.05	20.30	21.41	20.73	21.82	22.25
	6H	19.72	20.70	20.17	21.14	21.59	21.37	22.34	21.82	22.78	23.24
	8H	19.92	20.84	20.38	21.28	21.74	21.86	22.77	22.32	23.22	23.68
	12H	20.05	20.88	20.53	21.35	21.82	22.31	23.14	22.79	23.61	24.08
8H	4H	19.61	20.52	20.06	20.96	21.43	20.64	21.56	21.10	22.00	22.46
	6H	20.39	21.16	20.88	21.64	22.12	21.89	22.66	22.38	23.14	23.62
	8H	20.68	21.37	21.18	21.87	22.35	22.51	23.20	23.02	23.71	24.19
	12H	20.89	21.50	21.40	21.99	22.55	23.13	23.74	23.63	24.23	24.78
12H	4H	19.71	20.54	20.19	21.01	21.48	20.68	21.51	21.16	21.98	22.45
	6H	20.56	21.25	21.06	21.75	22.24	21.97	22.66	22.47	23.16	23.64
	8H	20.93	21.54	21.43	22.03	22.59	22.67	23.28	23.17	23.77	24.33