

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: P1588266

Luminaire Tested: 24CZSP-42-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588266
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-42-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Smooth Lens
Light Source: -
Ballast/Driver: -

Summary

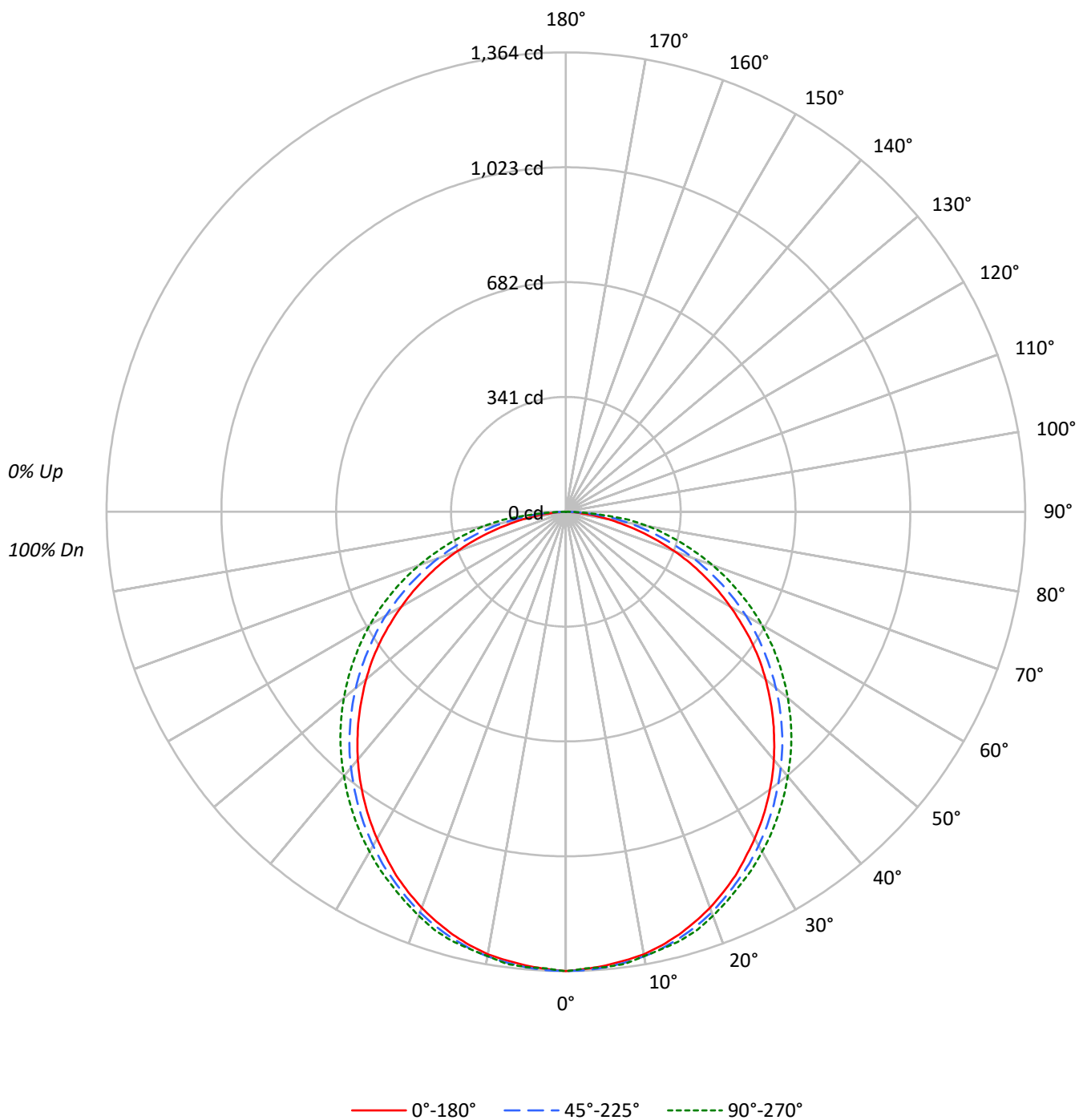
Lumens per Lamp: N/A
Luminaire Lumens: 3982.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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°	2089	2089	2089
5°	2080	2088	2086
10°	2075	2085	2083
15°	2060	2077	2089
20°	2039	2064	2081
25°	2014	2042	2067
30°	1983	2024	2061
35°	1954	2005	2055
40°	1922	1985	2049
45°	1885	1965	2052
50°	1845	1940	2051
55°	1797	1913	2053
60°	1729	1892	2058
65°	1650	1856	2065
70°	1538	1804	2074
75°	1370	1732	2094
80°	1133	1649	2196
85°	736	1490	1919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2266 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.2
10°-20°	369.4	9.3
20°-30°	557.1	14.0
30°-40°	671.0	16.8
40°-50°	700.7	17.6
50°-60°	643.5	16.2
60°-70°	506.9	12.7
70°-80°	311.0	7.8
80°-90°	93.6	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°	1055.4	26.5
0°-40°	1726.4	43.4
0°-60°	3070.6	77.1
0°-90°	3982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1353	1354	1358	1362	1357	129
15°	1299	1302	1310	1318	1318	366
25°	1192	1194	1208	1223	1223	549
35°	1045	1050	1072	1094	1099	654
45°	870	880	907	938	947	671
55°	673	685	716	757	769	601
65°	455	471	512	555	570	450
75°	232	250	293	339	354	245
85°	42	58	85	108	109	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1358.7	1361.3	1362.2	1363.1	1357.0
5°	1352.6	1354.3	1357.8	1362.2	1357.0
7.5°	1343.8	1345.6	1350.0	1356.1	1353.5
10°	1334.2	1335.1	1340.3	1344.7	1339.5
12.5°	1318.5	1321.1	1327.2	1330.7	1329.0
15°	1299.3	1301.9	1309.8	1317.6	1317.6
17.5°	1276.6	1280.1	1289.7	1300.2	1301.0
20°	1251.2	1253.8	1266.1	1276.6	1276.6
22.5°	1222.4	1225.9	1238.1	1249.5	1251.2
25°	1191.8	1194.4	1208.4	1223.3	1223.3
27.5°	1156.0	1161.2	1178.7	1193.6	1197.1
30°	1121.0	1125.4	1144.6	1163.0	1165.6
32.5°	1084.3	1089.6	1109.7	1129.8	1134.1
35°	1045.0	1050.3	1072.1	1093.9	1099.2
37.5°	1004.0	1010.1	1032.8	1058.1	1063.4
40°	961.1	968.1	992.6	1019.7	1024.9
42.5°	915.7	925.3	951.5	979.5	987.4
45°	870.3	879.9	907.0	938.4	947.2
47.5°	822.2	833.6	861.5	894.7	904.3
50°	774.2	785.5	814.3	850.2	860.7
52.5°	725.2	736.6	766.3	803.9	815.2
55°	672.8	685.0	716.5	756.7	768.9
57.5°	618.6	634.4	667.6	708.6	720.9
60°	564.4	580.2	617.7	657.9	671.9
62.5°	511.2	526.0	564.4	607.3	622.1
65°	455.2	471.0	512.0	554.8	569.7
67.5°	400.2	415.9	457.0	501.5	517.3
70°	343.4	360.9	402.8	447.4	463.1
72.5°	286.6	304.9	347.8	393.2	408.0
75°	231.5	249.9	292.7	339.0	353.9
77.5°	177.4	197.5	239.4	286.6	300.6
80°	128.4	147.7	187.0	233.3	249.0
82.5°	82.1	98.7	138.1	181.7	193.1
85°	41.9	57.7	84.8	107.5	109.2
87.5°	13.1	18.3	28.0	41.9	42.8
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	14.04	15.70	14.40	16.01	16.33	14.87	16.53	15.23	16.84	17.16
	3H	15.79	17.30	16.17	17.63	17.99	16.98	18.49	17.36	18.82	19.18
	4H	16.41	17.83	16.81	18.18	18.56	17.87	19.30	18.27	19.64	20.02
	6H	16.82	18.14	17.23	18.51	18.90	18.65	19.98	19.06	20.34	20.73
	8H	16.93	18.19	17.35	18.58	18.98	18.97	20.24	19.40	20.63	21.02
	12H	16.98	18.19	17.41	18.57	19.00	19.19	20.40	19.61	20.78	21.21
4H	2H	14.81	16.23	15.21	16.58	16.95	15.46	16.88	15.85	17.23	17.60
	3H	16.79	17.98	17.20	18.38	18.78	17.81	19.01	18.22	19.41	19.80
	4H	17.52	18.61	17.95	19.02	19.46	18.86	19.95	19.29	20.36	20.80
	6H	18.05	19.00	18.50	19.44	19.90	19.82	20.77	20.27	21.21	21.66
	8H	18.20	19.09	18.66	19.53	20.00	20.21	21.10	20.67	21.55	22.01
	12H	18.28	19.09	18.76	19.56	20.03	20.49	21.29	20.97	21.77	22.24
8H	4H	17.98	18.87	18.44	19.32	19.78	19.15	20.04	19.61	20.49	20.95
	6H	18.64	19.39	19.14	19.87	20.35	20.26	21.01	20.76	21.49	21.97
	8H	18.85	19.52	19.36	20.03	20.51	20.78	21.44	21.28	21.95	22.43
	12H	18.99	19.59	19.50	20.07	20.63	21.16	21.75	21.67	22.24	22.80
12H	4H	18.07	18.88	18.55	19.35	19.82	19.18	19.98	19.66	20.45	20.92
	6H	18.78	19.45	19.28	19.95	20.43	20.31	20.98	20.82	21.49	21.97
	8H	19.05	19.65	19.56	20.14	20.69	20.89	21.48	21.39	21.97	22.53