

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: P1589747

Luminaire Tested: 24CZSP-SB-42-L940

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-42-L940
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 3500 lumens, 90CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

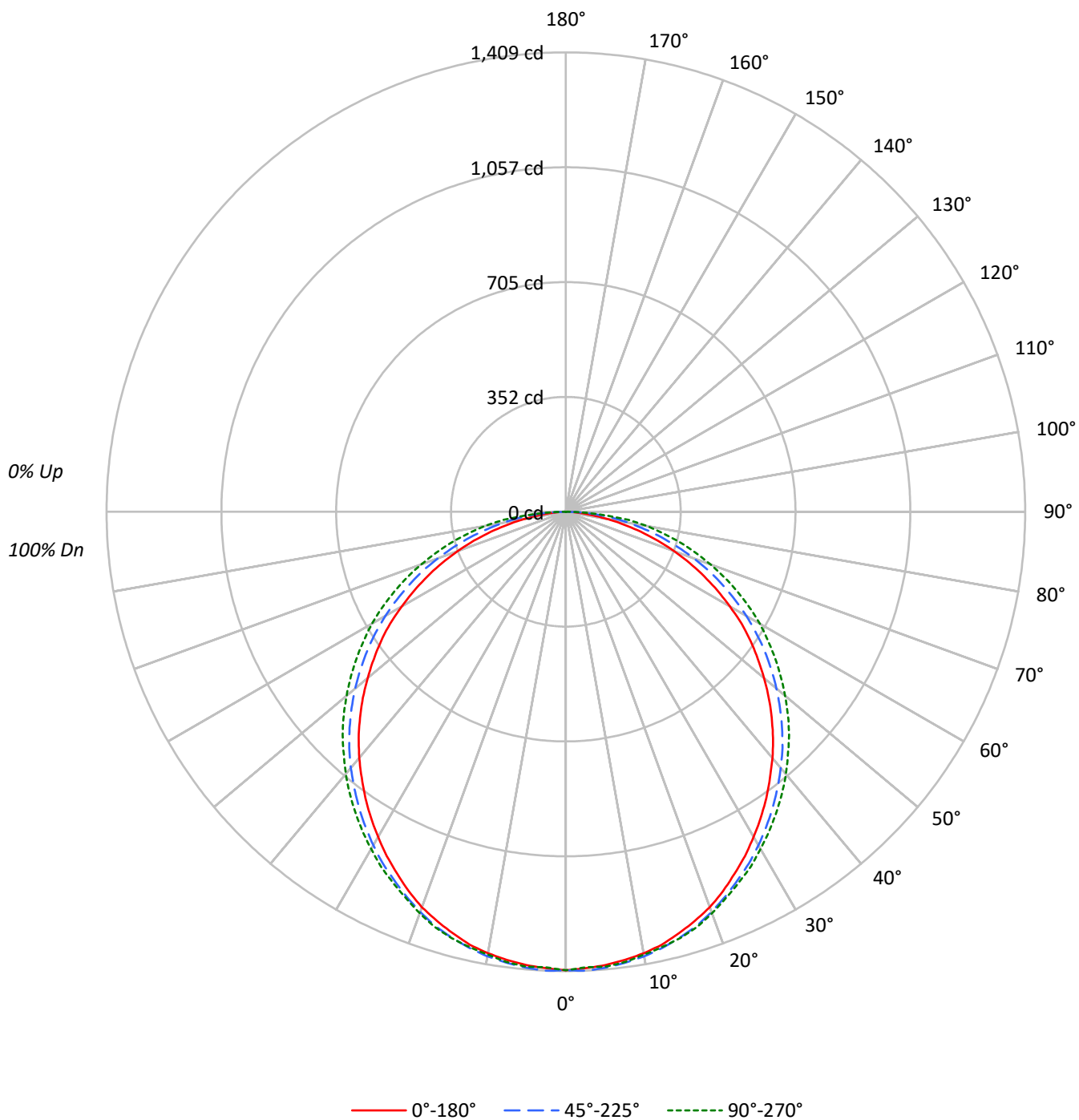
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4104.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38
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

TEST NUMBER: P1589747
CATALOG NUMBER: 24CZSP-SB-42-L940

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	68		
3	89	79	70	63	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°	2154	2154	2154
5°	2146	2158	2153
10°	2138	2153	2145
15°	2122	2144	2147
20°	2104	2129	2136
25°	2070	2107	2121
30°	2037	2089	2112
35°	2004	2069	2105
40°	1971	2051	2100
45°	1934	2032	2098
50°	1892	2010	2093
55°	1849	1988	2092
60°	1780	1958	2105
65°	1697	1920	2106
70°	1583	1867	2112
75°	1408	1799	2149
80°	1157	1723	2230
85°	763	1619	2016

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2283 cd/sqm

TEST NUMBER: P1589747

CATALOG NUMBER: 24CZSP-SB-42-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.2
10°-20°	380.8	9.3
20°-30°	573.9	14.0
30°-40°	691.1	16.8
40°-50°	722.1	17.6
50°-60°	663.4	16.2
60°-70°	522.4	12.7
70°-80°	320.3	7.8
80°-90°	97.1	2.4
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°	1087.7	26.5
0°-40°	1778.8	43.3
0°-60°	3164.3	77.1
0°-90°	4104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1396	1398	1404	1402	1400	133
15°	1338	1344	1352	1358	1354	378
25°	1225	1233	1246	1260	1255	565
35°	1072	1086	1107	1127	1126	670
45°	893	912	938	964	968	689
55°	692	712	744	776	784	618
65°	468	492	530	566	581	463
75°	238	266	304	340	363	253
85°	43	64	92	102	115	56
90°	0	0	0	0	0	

TEST NUMBER: P1589747

CATALOG NUMBER: 24CZSP-SB-42-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.3	1406.3	1406.3	1406.3	1406.3
2.5°	1401.1	1404.5	1408.9	1401.9	1398.5
5°	1395.9	1398.5	1403.7	1401.9	1400.2
7.5°	1386.3	1388.0	1395.0	1395.0	1393.2
10°	1375.0	1378.5	1384.6	1383.7	1379.3
12.5°	1360.2	1362.8	1369.8	1369.8	1367.2
15°	1338.5	1343.7	1352.4	1357.6	1354.2
17.5°	1315.9	1321.2	1332.4	1337.7	1335.9
20°	1290.8	1295.1	1306.4	1314.2	1310.7
22.5°	1259.5	1264.7	1277.7	1286.4	1282.9
25°	1224.7	1232.6	1246.5	1259.5	1255.1
27.5°	1190.0	1198.7	1216.1	1229.1	1227.3
30°	1151.8	1163.1	1181.3	1197.8	1194.3
32.5°	1112.7	1125.7	1144.8	1162.2	1161.3
35°	1071.9	1085.8	1106.6	1126.6	1125.7
37.5°	1028.4	1044.9	1066.7	1088.4	1089.2
40°	985.9	1001.5	1025.8	1049.3	1050.1
42.5°	940.7	957.2	983.3	1007.6	1008.5
45°	892.9	912.0	938.1	964.2	968.5
47.5°	844.3	864.3	891.2	919.0	924.2
50°	793.9	814.8	843.4	873.0	878.2
52.5°	742.7	764.4	793.9	823.4	831.3
55°	692.3	712.3	744.4	776.5	783.5
57.5°	639.3	657.5	692.3	726.2	734.8
60°	581.1	603.7	639.3	673.2	687.1
62.5°	524.6	549.0	585.4	619.3	635.0
65°	468.2	492.5	529.9	565.5	581.1
67.5°	410.9	436.0	476.0	509.9	527.2
70°	353.5	378.7	416.9	453.4	471.7
72.5°	296.2	323.1	360.5	397.8	416.1
75°	238.0	265.8	304.0	340.5	363.1
77.5°	183.3	210.2	248.4	285.8	304.9
80°	131.2	158.1	195.4	232.8	252.8
82.5°	83.4	108.6	145.1	176.3	194.6
85°	43.4	64.3	92.1	102.5	114.7
87.5°	13.0	25.2	35.6	40.0	49.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1589747
CATALOG NUMBER: 24CZSP-SB-42-L940

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	14.18	15.84	14.54	16.16	16.47	14.93	16.59	15.29	16.90	17.22
	3H	15.94	17.45	16.32	17.78	18.13	17.02	18.53	17.40	18.85	19.21
	4H	16.57	17.99	16.96	18.34	18.71	17.91	19.33	18.30	19.68	20.05
	6H	16.98	18.30	17.39	18.66	19.05	18.67	19.99	19.08	20.36	20.75
	8H	17.08	18.35	17.51	18.74	19.13	18.98	20.25	19.41	20.64	21.03
	12H	17.14	18.35	17.57	18.73	19.16	19.20	20.41	19.63	20.79	21.22
4H	2H	14.95	16.37	15.35	16.72	17.09	15.53	16.95	15.93	17.30	17.67
	3H	16.94	18.14	17.35	18.54	18.94	17.86	19.06	18.27	19.45	19.85
	4H	17.70	18.78	18.13	19.20	19.63	18.89	19.98	19.32	20.39	20.83
	6H	18.23	19.19	18.69	19.63	20.08	19.82	20.78	20.28	21.22	21.67
	8H	18.38	19.27	18.84	19.71	20.18	20.21	21.10	20.67	21.54	22.00
	12H	18.47	19.27	18.95	19.74	20.21	20.48	21.29	20.96	21.76	22.23
8H	4H	18.15	19.04	18.61	19.48	19.95	19.19	20.08	19.65	20.53	20.99
	6H	18.83	19.57	19.32	20.06	20.53	20.28	21.02	20.77	21.51	21.98
	8H	19.05	19.72	19.55	20.22	20.71	20.76	21.43	21.27	21.94	22.42
	12H	19.19	19.79	19.70	20.28	20.83	21.14	21.73	21.64	22.22	22.78
12H	4H	18.23	19.04	18.71	19.51	19.98	19.22	20.02	19.70	20.50	20.97
	6H	18.95	19.62	19.46	20.13	20.61	20.33	21.00	20.84	21.50	21.99
	8H	19.25	19.84	19.75	20.33	20.89	20.88	21.47	21.39	21.96	22.52