

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: P1588265

Luminaire Tested: 24CZSP-42-L935

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588265
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-42-L935
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

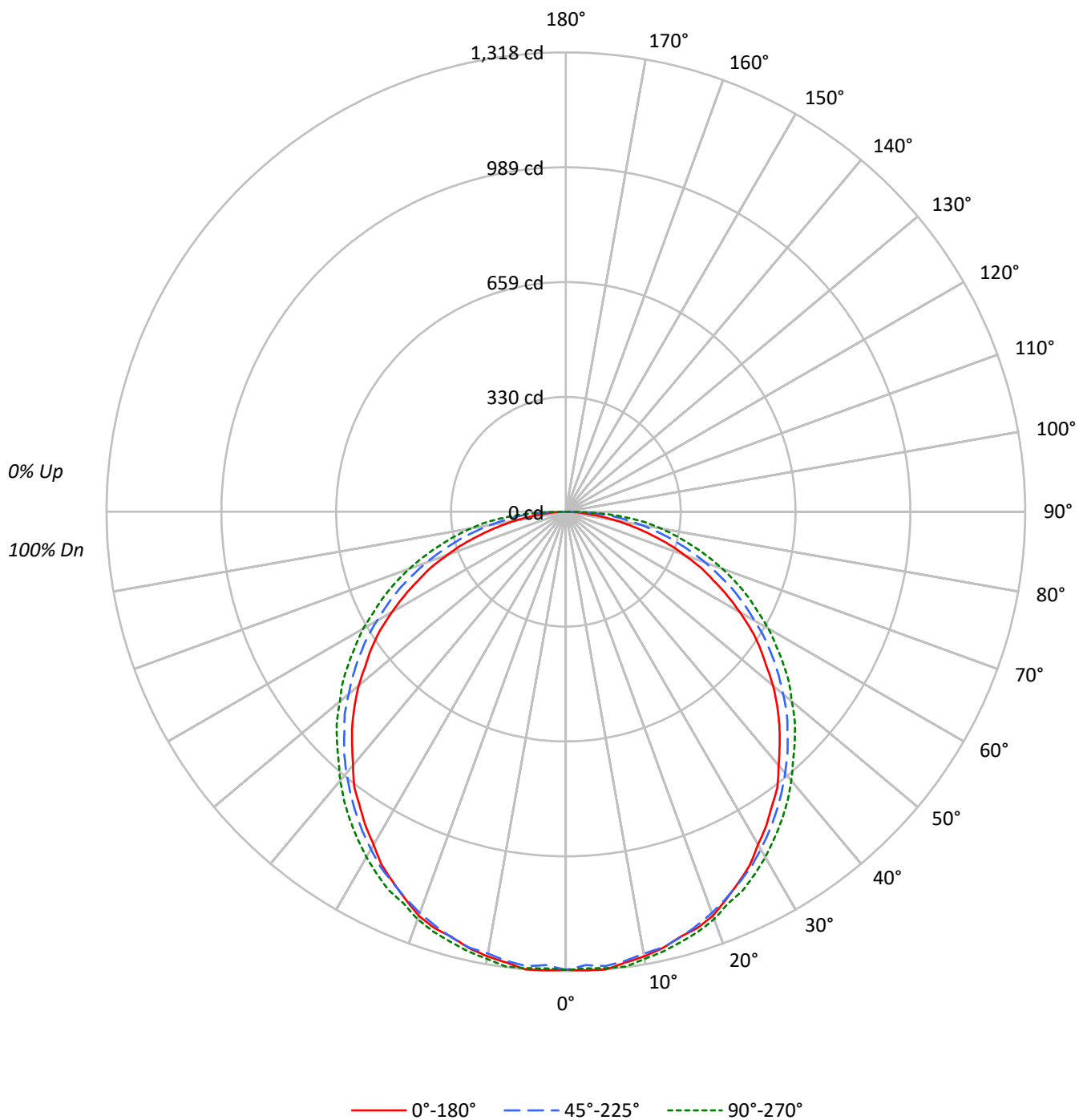
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4011.0 lumens
Efficiency: N/A
Efficacy: 139.8 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): 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: P1588265
CATALOG NUMBER: 24CZSP-42-L935

Luminous Intensity Polar Plot



TEST NUMBER: P1588265

CATALOG NUMBER: 24CZSP-42-L935

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		89
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	60		68
4	81	69	60	53	79	67	59	52	65	57	51		62	56	51		60
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	44	39		50	44	38		49
7	64	50	41	35	62	49	40	34	47	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2013	2013	2013
5°	2026	2011	2020
10°	2014	2002	2026
15°	2003	2006	2026
20°	2010	1996	2028
25°	1982	1985	2028
30°	1950	1977	2023
35°	1927	1967	2019
40°	1899	1957	2013
45°	1877	1947	2012
50°	1850	1939	2017
55°	1816	1931	2034
60°	1766	1919	2057
65°	1695	1918	2089
70°	1618	1905	2138
75°	1489	1910	2217
80°	1305	1948	2441
85°	996	2246	2921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 3237 cd/sqm

TEST NUMBER: P1588265

CATALOG NUMBER: 24CZSP-42-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	3.1
10°-20°	358.7	8.9
20°-30°	544.8	13.6
30°-40°	660.0	16.5
40°-50°	694.3	17.3
50°-60°	645.6	16.1
60°-70°	519.8	13.0
70°-80°	336.7	8.4
80°-90°	126.3	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°	1028.3	25.6
0°-40°	1688.2	42.1
0°-60°	3028.2	75.5
0°-90°	4011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1318	1316	1308	1316	1314	125
15°	1263	1268	1265	1280	1278	358
25°	1173	1172	1175	1195	1200	541
35°	1031	1038	1052	1070	1080	646
45°	866	878	899	918	929	668
55°	680	697	723	752	762	607
65°	468	489	529	561	576	465
75°	252	277	323	360	375	267
85°	57	84	128	160	166	70
90°	0	0	0	0	0	

TEST NUMBER: P1588265

CATALOG NUMBER: 24CZSP-42-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.1	1314.1	1314.1	1314.1	1314.1
2.5°	1317.0	1317.0	1301.6	1317.9	1311.2
5°	1317.9	1316.0	1308.3	1316.0	1314.1
7.5°	1304.5	1306.4	1299.7	1309.3	1316.0
10°	1294.9	1296.8	1287.2	1302.6	1302.6
12.5°	1282.4	1284.3	1280.5	1294.9	1292.0
15°	1263.2	1268.0	1265.1	1280.5	1277.6
17.5°	1252.6	1248.8	1245.9	1257.4	1263.2
20°	1233.4	1224.8	1224.8	1240.1	1244.0
22.5°	1202.7	1199.8	1200.7	1220.0	1216.1
25°	1172.9	1171.9	1174.8	1195.0	1199.8
27.5°	1143.1	1141.2	1149.8	1169.0	1172.9
30°	1102.8	1106.6	1118.1	1139.3	1144.1
32.5°	1069.1	1075.9	1086.4	1106.6	1112.4
35°	1030.7	1038.4	1051.9	1070.1	1079.7
37.5°	997.1	1001.9	1016.3	1033.6	1045.1
40°	950.0	962.5	978.8	1003.8	1006.7
42.5°	907.8	920.3	941.4	968.3	965.4
45°	866.5	878.0	899.1	918.3	928.9
47.5°	822.3	832.8	860.7	883.7	891.4
50°	776.2	789.6	813.6	837.6	846.3
52.5°	724.3	738.7	769.4	795.4	807.9
55°	680.1	697.4	723.3	752.1	761.8
57.5°	631.1	645.5	677.2	706.0	715.6
60°	576.4	593.6	626.3	657.0	671.5
62.5°	523.5	542.7	577.3	609.0	620.5
65°	467.8	488.9	529.3	561.0	576.4
67.5°	419.8	437.1	476.5	512.0	528.3
70°	361.2	384.2	425.5	464.9	477.4
72.5°	309.3	329.5	372.7	412.1	427.5
75°	251.7	276.7	322.8	360.2	374.6
77.5°	198.8	224.8	270.9	310.3	326.6
80°	147.9	172.9	220.9	261.3	276.7
82.5°	99.9	124.9	172.9	212.3	229.6
85°	56.7	83.6	127.8	159.5	166.2
87.5°	25.0	48.0	72.0	86.5	92.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1588265
CATALOG NUMBER: 24CZSP-42-L935

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	14.11	15.80	14.48	16.11	16.42	14.79	16.47	15.15	16.78	17.10
	3H	15.97	17.50	16.34	17.82	18.18	17.01	18.54	17.38	18.86	19.22
	4H	16.66	18.10	17.05	18.45	18.82	17.97	19.41	18.37	19.76	20.14
	6H	17.15	18.49	17.56	18.85	19.24	18.86	20.20	19.27	20.57	20.96
	8H	17.29	18.58	17.72	18.97	19.36	19.27	20.55	19.69	20.94	21.34
	12H	17.38	18.62	17.81	19.00	19.43	19.63	20.86	20.05	21.24	21.67
4H	2H	14.91	16.35	15.31	16.70	17.07	15.43	16.87	15.82	17.22	17.59
	3H	17.00	18.22	17.40	18.61	19.01	17.89	19.11	18.30	19.50	19.90
	4H	17.82	18.93	18.25	19.34	19.77	19.02	20.13	19.45	20.54	20.97
	6H	18.44	19.42	18.89	19.86	20.31	20.09	21.06	20.54	21.50	21.95
	8H	18.64	19.55	19.10	19.99	20.46	20.58	21.49	21.03	21.93	22.40
	12H	18.77	19.60	19.25	20.07	20.54	21.03	21.86	21.51	22.33	22.80
8H	4H	18.32	19.24	18.78	19.68	20.14	19.36	20.27	19.82	20.71	21.18
	6H	19.11	19.88	19.60	20.36	20.83	20.61	21.38	21.10	21.86	22.33
	8H	19.39	20.08	19.90	20.59	21.07	21.23	21.92	21.74	22.43	22.91
	12H	19.61	20.22	20.11	20.71	21.27	21.84	22.46	22.35	22.94	23.50
12H	4H	18.43	19.26	18.91	19.73	20.20	19.40	20.22	19.88	20.70	21.16
	6H	19.28	19.97	19.78	20.47	20.95	20.68	21.37	21.19	21.88	22.36
	8H	19.65	20.26	20.15	20.75	21.30	21.39	22.00	21.89	22.49	23.05