

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: P1586439

Luminaire Tested: 22CZSP-47-L845

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1586439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22CZSP-47-L845
Description: 2x2 CZSP LED Luminaire, 4500K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

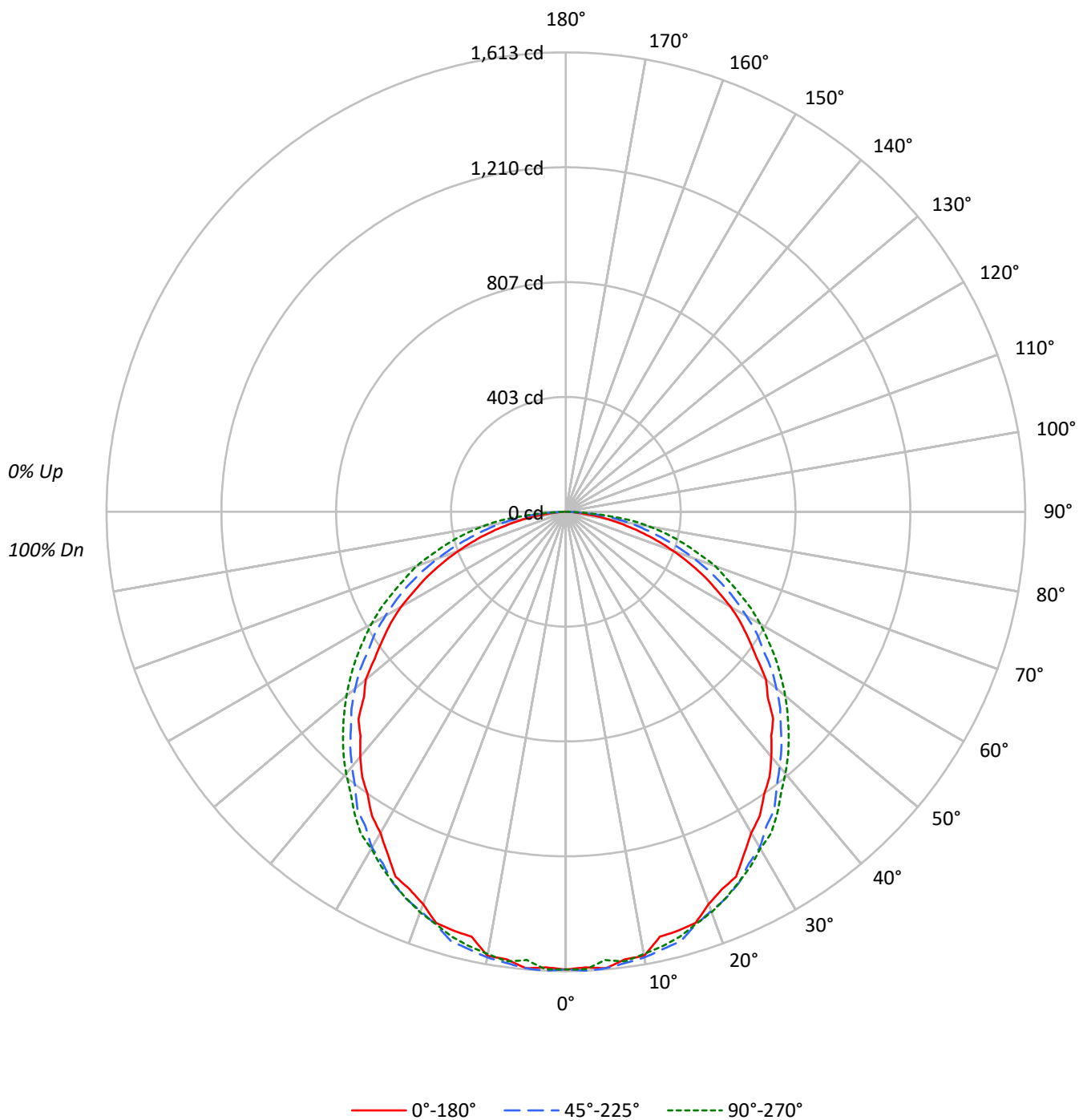
Lumens per Lamp: N/A
Luminaire Lumens: 4692.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
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	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	31	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°	5032	5032	5032
5°	5058	5058	4966
10°	5033	5052	5014
15°	4937	5057	5009
20°	4885	4971	4985
25°	4885	4968	4961
30°	4707	4924	4939
35°	4636	4877	4946
40°	4589	4773	4904
45°	4559	4724	4901
50°	4470	4704	4899
55°	4288	4616	4911
60°	4186	4581	4938
65°	3974	4515	4952
70°	3665	4370	5122
75°	3257	4176	5170
80°	2707	4095	5359
85°	1653	3668	4531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.2
10°-20°	435.5	9.3
20°-30°	656.8	14.0
30°-40°	788.9	16.8
40°-50°	823.5	17.6
50°-60°	758.2	16.2
60°-70°	598.7	12.8
70°-80°	368.7	7.9
80°-90°	109.3	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°	1244.6	26.5
0°-40°	2033.5	43.3
0°-60°	3615.2	77.1
0°-90°	4692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1607	1607	1607	1607	1607	
5°	1609	1593	1609	1611	1580	152
15°	1523	1544	1560	1553	1545	430
25°	1414	1424	1438	1432	1436	644
35°	1213	1235	1276	1282	1294	762
45°	1030	1038	1067	1090	1107	787
55°	786	806	846	884	900	705
65°	536	555	609	653	668	528
75°	269	295	345	400	427	286
85°	46	66	102	121	126	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1607.0	1607.0	1607.0	1607.0	1607.0
2.5°	1601.0	1618.0	1613.0	1616.0	1608.0
5°	1609.0	1593.0	1609.0	1611.0	1580.0
7.5°	1585.0	1587.0	1598.0	1601.0	1592.0
10°	1583.0	1589.0	1589.0	1579.0	1577.0
12.5°	1528.0	1558.0	1573.0	1580.0	1563.0
15°	1523.0	1544.0	1560.0	1553.0	1545.0
17.5°	1514.0	1507.9	1519.0	1527.0	1518.0
20°	1465.9	1475.9	1491.9	1493.9	1495.9
22.5°	1433.9	1436.9	1468.9	1471.9	1467.9
25°	1413.9	1423.9	1437.9	1431.9	1435.9
27.5°	1354.9	1378.9	1391.9	1403.9	1403.9
30°	1301.8	1329.8	1361.9	1365.9	1365.9
32.5°	1266.8	1285.8	1309.8	1317.8	1339.8
35°	1212.8	1234.8	1275.8	1281.8	1293.8
37.5°	1174.7	1196.8	1215.8	1236.8	1241.8
40°	1122.7	1145.7	1167.7	1191.7	1199.8
42.5°	1067.7	1091.7	1120.7	1145.7	1155.7
45°	1029.6	1037.7	1066.7	1089.7	1106.7
47.5°	960.6	983.6	1020.6	1049.7	1056.7
50°	917.6	926.6	965.6	1004.6	1005.6
52.5°	845.5	872.5	910.6	947.6	952.6
55°	785.5	806.5	845.5	883.6	899.6
57.5°	729.5	745.5	795.5	833.5	842.5
60°	668.4	685.4	731.5	775.5	788.5
62.5°	597.4	621.4	671.4	713.4	731.5
65°	536.3	555.3	609.4	653.4	668.4
67.5°	467.3	493.3	544.3	593.4	609.4
70°	400.3	426.3	477.3	528.3	559.4
72.5°	334.2	361.2	412.3	471.3	488.3
75°	269.2	295.2	345.2	400.3	427.3
77.5°	205.1	233.1	284.2	339.2	365.2
80°	150.1	172.1	227.1	275.2	297.2
82.5°	93.1	116.1	167.1	212.1	231.1
85°	46.0	66.0	102.1	121.1	126.1
87.5°	14.0	21.0	32.0	42.0	48.0
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	17.08	18.74	17.44	19.06	19.37	17.90	19.57	18.27	19.88	20.19
	3H	18.83	20.34	19.21	20.67	21.03	20.05	21.56	20.43	21.88	22.24
	4H	19.45	20.87	19.85	21.22	21.59	20.96	22.39	21.36	22.73	23.11
	6H	19.85	21.17	20.26	21.54	21.93	21.77	23.09	22.18	23.45	23.84
	8H	19.95	21.22	20.38	21.61	22.00	22.09	23.35	22.51	23.74	24.14
	12H	20.00	21.21	20.43	21.59	22.02	22.29	23.50	22.72	23.89	24.31
4H	2H	17.87	19.29	18.27	19.64	20.02	18.51	19.93	18.91	20.28	20.65
	3H	19.85	21.04	20.25	21.44	21.84	20.89	22.09	21.30	22.48	22.88
	4H	20.58	21.66	21.01	22.08	22.51	21.96	23.04	22.39	23.45	23.89
	6H	21.10	22.05	21.55	22.49	22.94	22.92	23.88	23.38	24.31	24.77
	8H	21.24	22.13	21.70	22.57	23.03	23.32	24.21	23.78	24.65	25.12
	12H	21.31	22.12	21.79	22.59	23.06	23.59	24.39	24.07	24.87	25.33
8H	4H	21.04	21.94	21.50	22.38	22.84	22.25	23.14	22.70	23.58	24.04
	6H	21.70	22.44	22.19	22.93	23.40	23.37	24.11	23.86	24.60	25.08
	8H	21.90	22.57	22.41	23.08	23.56	23.88	24.55	24.38	25.05	25.54
	12H	22.03	22.62	22.54	23.11	23.67	24.25	24.84	24.75	25.33	25.89
12H	4H	21.13	21.94	21.61	22.41	22.88	22.27	23.07	22.75	23.55	24.02
	6H	21.84	22.51	22.34	23.01	23.50	23.42	24.09	23.93	24.59	25.08
	8H	22.11	22.70	22.62	23.19	23.75	23.99	24.58	24.50	25.07	25.63