

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: P1588626

Luminaire Tested: 24CZSP-A-43HE-L940-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1588626
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-A-43HE-L940-S
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Smooth Lens, Air Vented Housing
Light Source: -
Ballast/Driver: -

Summary

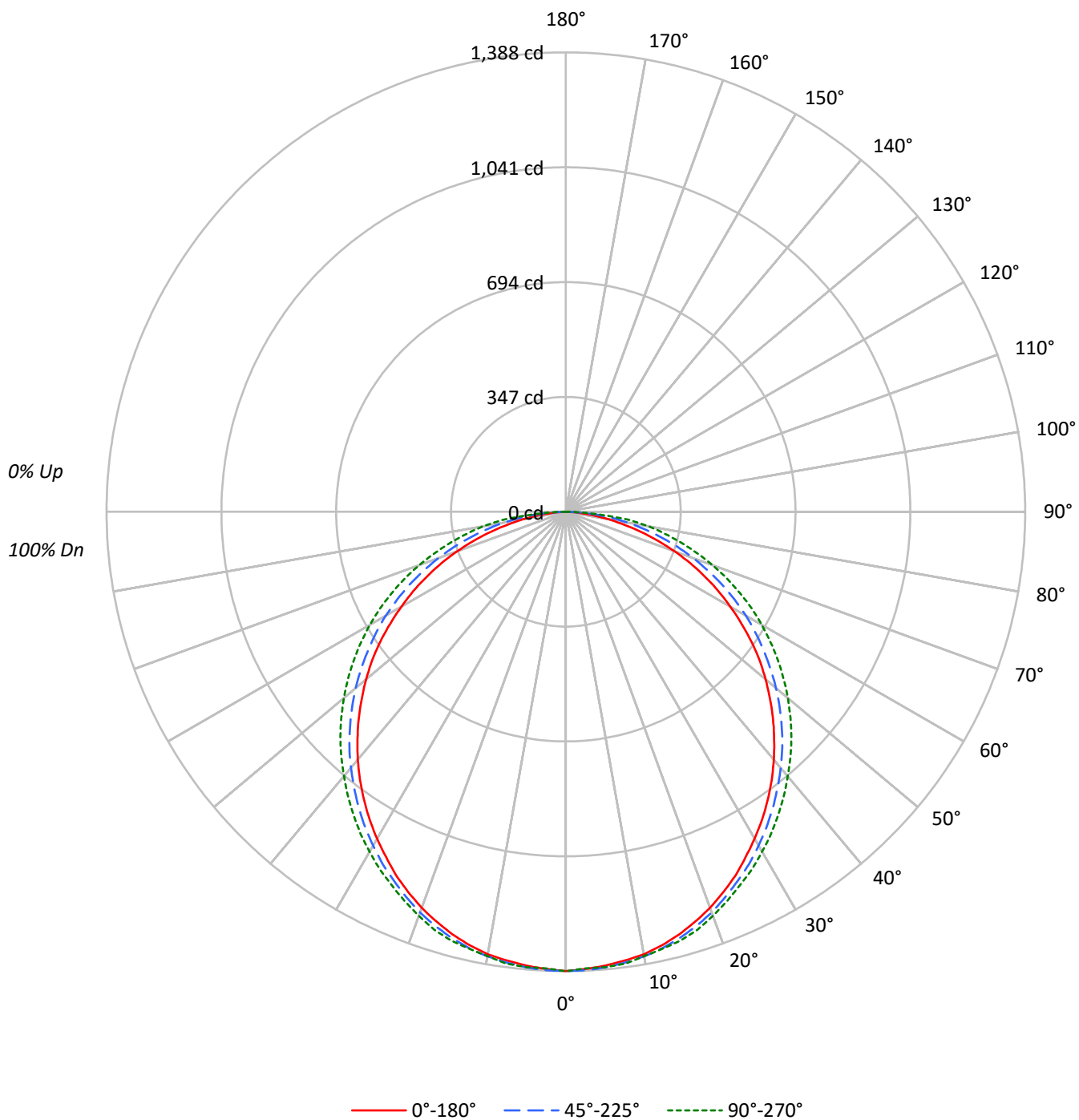
Lumens per Lamp: N/A
Luminaire Lumens: 4052.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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°	2126	2126	2126
5°	2116	2124	2123
10°	2112	2121	2120
15°	2096	2113	2126
20°	2075	2100	2117
25°	2050	2078	2104
30°	2017	2060	2098
35°	1988	2040	2091
40°	1955	2019	2085
45°	1918	1999	2088
50°	1877	1975	2087
55°	1828	1947	2089
60°	1760	1926	2094
65°	1679	1888	2101
70°	1565	1836	2110
75°	1394	1763	2131
80°	1153	1678	2235
85°	750	1515	1952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 2306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.2
10°-20°	375.9	9.3
20°-30°	566.8	14.0
30°-40°	682.7	16.8
40°-50°	713.0	17.6
50°-60°	654.8	16.2
60°-70°	515.8	12.7
70°-80°	316.4	7.8
80°-90°	95.2	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°	1074.0	26.5
0°-40°	1756.7	43.4
0°-60°	3124.6	77.1
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1376	1378	1382	1386	1381	131
15°	1322	1325	1333	1341	1341	373
25°	1213	1215	1230	1245	1245	558
35°	1063	1069	1091	1113	1118	665
45°	886	895	923	955	964	683
55°	685	697	729	770	782	611
65°	463	479	521	565	580	458
75°	236	254	298	345	360	250
85°	43	59	86	109	111	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.9	1387.9	1387.9	1387.9	1387.9
2.5°	1382.6	1385.3	1386.1	1387.0	1380.8
5°	1376.4	1378.1	1381.7	1386.1	1380.8
7.5°	1367.5	1369.2	1373.7	1379.9	1377.2
10°	1357.7	1358.6	1363.9	1368.4	1363.0
12.5°	1341.7	1344.4	1350.6	1354.1	1352.4
15°	1322.1	1324.8	1332.8	1340.8	1340.8
17.5°	1299.0	1302.6	1312.3	1323.0	1323.9
20°	1273.2	1275.9	1288.3	1299.0	1299.0
22.5°	1243.9	1247.4	1259.9	1271.4	1273.2
25°	1212.8	1215.4	1229.7	1244.8	1244.8
27.5°	1176.3	1181.6	1199.4	1214.5	1218.1
30°	1140.7	1145.2	1164.7	1183.4	1186.1
32.5°	1103.4	1108.7	1129.2	1149.6	1154.1
35°	1063.4	1068.7	1091.0	1113.2	1118.5
37.5°	1021.6	1027.8	1050.9	1076.7	1082.1
40°	978.0	985.1	1010.0	1037.6	1042.9
42.5°	931.8	941.6	968.3	996.7	1004.7
45°	885.6	895.3	922.9	954.9	963.8
47.5°	836.7	848.2	876.7	910.5	920.2
50°	787.8	799.3	828.7	865.1	875.8
52.5°	738.0	749.5	779.8	818.0	829.6
55°	684.6	697.1	729.1	770.0	782.4
57.5°	629.5	645.5	679.3	721.1	733.5
60°	574.4	590.4	628.6	669.5	683.7
62.5°	520.1	535.3	574.4	617.9	633.1
65°	463.2	479.2	521.0	564.6	579.7
67.5°	407.2	423.2	465.0	510.4	526.4
70°	349.4	367.2	409.9	455.2	471.2
72.5°	291.6	310.3	353.9	400.1	415.2
75°	235.6	254.3	297.9	345.0	360.1
77.5°	180.5	200.9	243.6	291.6	305.9
80°	130.7	150.3	190.3	237.4	253.4
82.5°	83.6	100.5	140.5	184.9	196.5
85°	42.7	58.7	86.2	109.4	111.1
87.5°	13.3	18.7	28.5	42.7	43.6
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	14.10	15.76	14.46	16.07	16.39	14.93	16.59	15.29	16.90	17.22
	3H	15.85	17.36	16.23	17.69	18.05	17.04	18.55	17.42	18.88	19.24
	4H	16.47	17.89	16.87	18.24	18.62	17.93	19.36	18.33	19.70	20.08
	6H	16.88	18.20	17.29	18.57	18.96	18.72	20.04	19.13	20.40	20.79
	8H	16.99	18.25	17.41	18.64	19.04	19.04	20.30	19.46	20.69	21.08
	12H	17.04	18.25	17.47	18.63	19.06	19.25	20.46	19.68	20.84	21.27
4H	2H	14.87	16.29	15.27	16.64	17.01	15.52	16.94	15.91	17.29	17.66
	3H	16.85	18.05	17.26	18.44	18.84	17.87	19.07	18.28	19.47	19.87
	4H	17.58	18.67	18.01	19.08	19.52	18.92	20.01	19.35	20.42	20.86
	6H	18.11	19.06	18.57	19.50	19.96	19.88	20.83	20.33	21.27	21.72
	8H	18.26	19.15	18.72	19.59	20.06	20.27	21.17	20.73	21.61	22.07
	12H	18.34	19.15	18.82	19.62	20.09	20.55	21.35	21.03	21.83	22.30
8H	4H	18.04	18.93	18.50	19.38	19.84	19.21	20.10	19.67	20.55	21.01
	6H	18.70	19.45	19.20	19.93	20.41	20.32	21.07	20.82	21.56	22.03
	8H	18.92	19.58	19.42	20.09	20.57	20.84	21.50	21.34	22.01	22.49
	12H	19.05	19.65	19.56	20.14	20.69	21.22	21.81	21.73	22.30	22.86
12H	4H	18.13	18.94	18.61	19.41	19.88	19.24	20.04	19.72	20.51	20.98
	6H	18.84	19.51	19.34	20.01	20.50	20.37	21.04	20.88	21.55	22.03
	8H	19.11	19.71	19.62	20.20	20.75	20.95	21.54	21.45	22.03	22.59