

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: P1590037

Luminaire Tested: 24CZSP-SB-80-L840

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1590037
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-80-L840
Description: 2x4 CZSP LED Luminaire, 4000K CCT and 8000 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

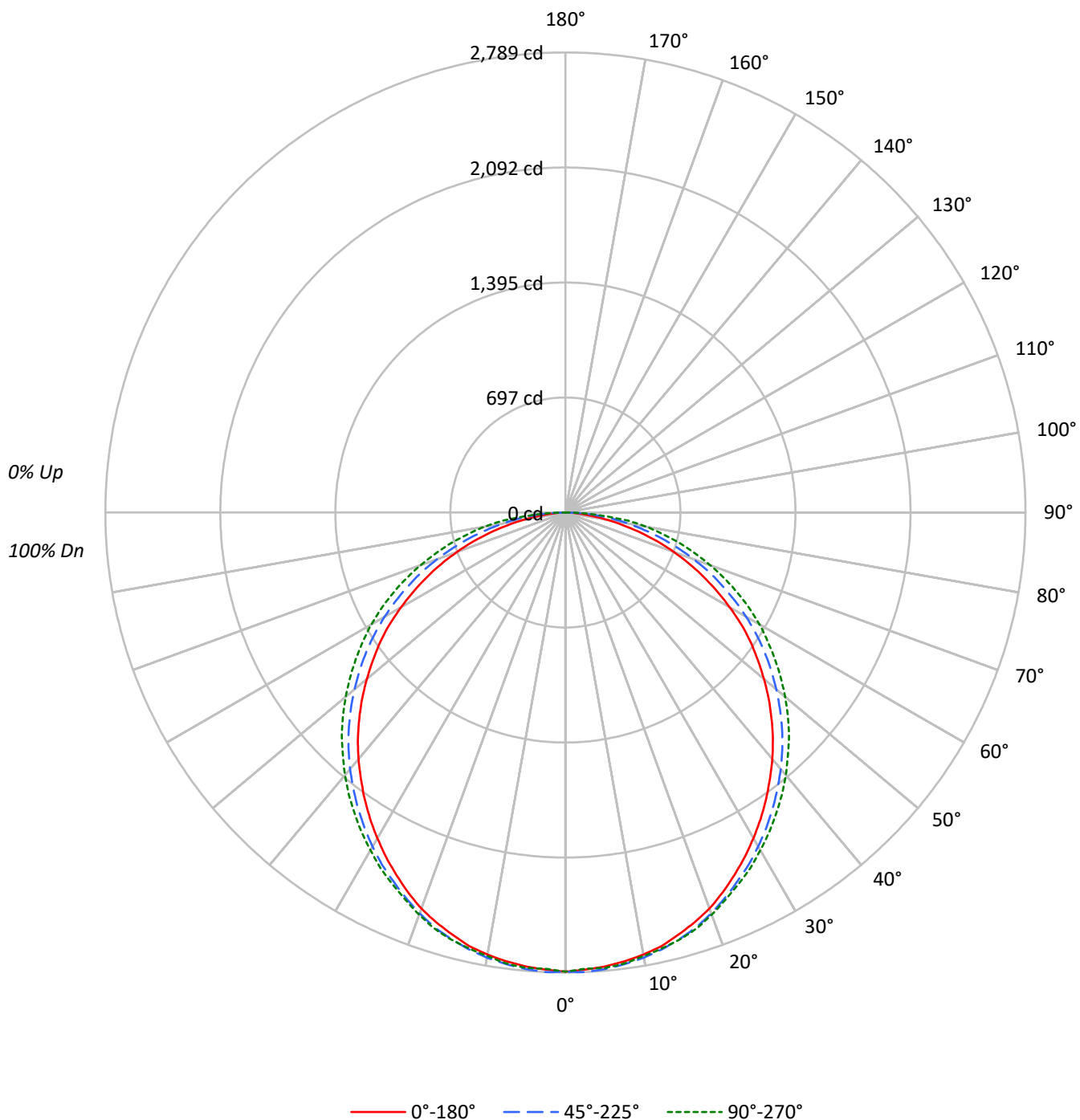
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8123.0 lumens
Efficiency: N/A
Efficacy: 129.6 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): 62.7
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: 28.75 FT

TEST NUMBER: P1590037
CATALOG NUMBER: 24CZSP-SB-80-L840

Luminous Intensity Polar Plot



TEST NUMBER: P1590037

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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	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°	4263	4263	4263
5°	4248	4272	4261
10°	4233	4262	4246
15°	4201	4244	4250
20°	4164	4214	4229
25°	4097	4169	4198
30°	4032	4135	4181
35°	3967	4095	4166
40°	3901	4060	4156
45°	3828	4022	4152
50°	3744	3978	4142
55°	3659	3934	4141
60°	3523	3876	4166
65°	3358	3801	4168
70°	3133	3695	4180
75°	2788	3561	4252
80°	2290	3412	4413
85°	1511	3202	3987

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4519 cd/sqm

TEST NUMBER: P1590037

CATALOG NUMBER: 24CZSP-SB-80-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	3.2
10°-20°	753.6	9.3
20°-30°	1135.9	14.0
30°-40°	1367.9	16.8
40°-50°	1429.1	17.6
50°-60°	1313.0	16.2
60°-70°	1034.0	12.7
70°-80°	633.9	7.8
80°-90°	192.2	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°	2152.9	26.5
0°-40°	3520.8	43.3
0°-60°	6262.9	77.1
0°-90°	8123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2783	2783	2783	2783	2783	
5°	2763	2768	2778	2775	2771	262
15°	2649	2660	2677	2687	2680	748
25°	2424	2440	2467	2493	2484	1118
35°	2122	2149	2190	2230	2228	1327
45°	1767	1805	1857	1908	1917	1363
55°	1370	1410	1473	1537	1551	1222
65°	927	975	1049	1119	1150	916
75°	471	526	602	674	719	501
85°	86	127	182	203	227	111
90°	0	0	0	0	0	

TEST NUMBER: P1590037

CATALOG NUMBER: 24CZSP-SB-80-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2783.4	2783.4	2783.4	2783.4	2783.4
2.5°	2773.1	2780.0	2788.6	2774.8	2768.0
5°	2762.8	2768.0	2778.3	2774.8	2771.4
7.5°	2743.9	2747.3	2761.1	2761.1	2757.6
10°	2721.5	2728.4	2740.4	2738.7	2730.1
12.5°	2692.3	2697.5	2711.2	2711.2	2706.1
15°	2649.3	2659.6	2676.8	2687.2	2680.3
17.5°	2604.6	2614.9	2637.3	2647.6	2644.2
20°	2554.8	2563.4	2585.7	2601.2	2594.3
22.5°	2492.9	2503.2	2529.0	2546.2	2539.3
25°	2424.1	2439.6	2467.1	2492.9	2484.3
27.5°	2355.3	2372.5	2406.9	2432.7	2429.3
30°	2279.7	2302.0	2338.1	2370.8	2363.9
32.5°	2202.3	2228.1	2265.9	2300.3	2298.6
35°	2121.5	2149.0	2190.3	2229.8	2228.1
37.5°	2035.6	2068.2	2111.2	2154.2	2155.9
40°	1951.3	1982.3	2030.4	2076.8	2078.5
42.5°	1861.9	1894.6	1946.2	1994.3	1996.0
45°	1767.4	1805.2	1856.8	1908.3	1916.9
47.5°	1671.1	1710.6	1763.9	1818.9	1829.3
50°	1571.4	1612.6	1669.4	1727.8	1738.1
52.5°	1469.9	1512.9	1571.4	1629.8	1645.3
55°	1370.2	1409.8	1473.4	1537.0	1550.7
57.5°	1265.4	1301.5	1370.2	1437.3	1454.5
60°	1150.2	1194.9	1265.4	1332.4	1359.9
62.5°	1038.4	1086.6	1158.8	1225.8	1256.8
65°	926.7	974.8	1048.7	1119.2	1150.2
67.5°	813.2	863.1	942.1	1009.2	1043.6
70°	699.7	749.6	825.2	897.4	933.5
72.5°	586.3	639.6	713.5	787.4	823.5
75°	471.1	526.1	601.7	673.9	718.6
77.5°	362.8	416.1	491.7	565.6	603.4
80°	259.6	312.9	386.8	460.8	500.3
82.5°	165.0	214.9	287.1	349.0	385.1
85°	86.0	127.2	182.2	202.9	226.9
87.5°	25.8	49.9	70.5	79.1	98.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1590037

CATALOG NUMBER: 24CZSP-SB-80-L840

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	16.6	18.2	16.9	18.5	18.8	17.3	19.0	17.7	19.3	19.6
	3H	18.3	19.8	18.7	20.1	20.5	19.4	20.9	19.8	21.2	21.6
	4H	18.9	20.4	19.3	20.7	21.1	20.3	21.7	20.7	22.0	22.4
	6H	19.4	20.7	19.8	21.0	21.4	21.0	22.4	21.5	22.7	23.1
	8H	19.5	20.7	19.9	21.1	21.5	21.4	22.6	21.8	23.0	23.4
	12H	19.5	20.7	19.9	21.1	21.5	21.6	22.8	22.0	23.2	23.6
4H	2H	17.3	18.7	17.7	19.1	19.5	17.9	19.3	18.3	19.7	20.0
	3H	19.3	20.5	19.7	20.9	21.3	20.2	21.4	20.6	21.8	22.2
	4H	20.1	21.2	20.5	21.6	22.0	21.3	22.4	21.7	22.8	23.2
	6H	20.6	21.6	21.1	22.0	22.5	22.2	23.1	22.6	23.6	24.0
	8H	20.8	21.6	21.2	22.1	22.6	22.6	23.5	23.0	23.9	24.4
	12H	20.8	21.6	21.3	22.1	22.6	22.9	23.7	23.3	24.1	24.6
8H	4H	20.5	21.4	21.0	21.9	22.3	21.6	22.5	22.0	22.9	23.4
	6H	21.2	21.9	21.7	22.4	22.9	22.6	23.4	23.1	23.9	24.4
	8H	21.4	22.1	21.9	22.6	23.1	23.1	23.8	23.6	24.3	24.8
	12H	21.6	22.2	22.1	22.6	23.2	23.5	24.1	24.0	24.6	25.2
12H	4H	20.6	21.4	21.1	21.9	22.4	21.6	22.4	22.1	22.9	23.3
	6H	21.3	22.0	21.9	22.5	23.0	22.7	23.4	23.2	23.8	24.4
	8H	21.6	22.2	22.1	22.7	23.3	23.3	23.8	23.8	24.3	24.9

(END OF REPORT)