

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P843008

Luminaire Tested: **24CZ2-30HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-UNV-B40
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

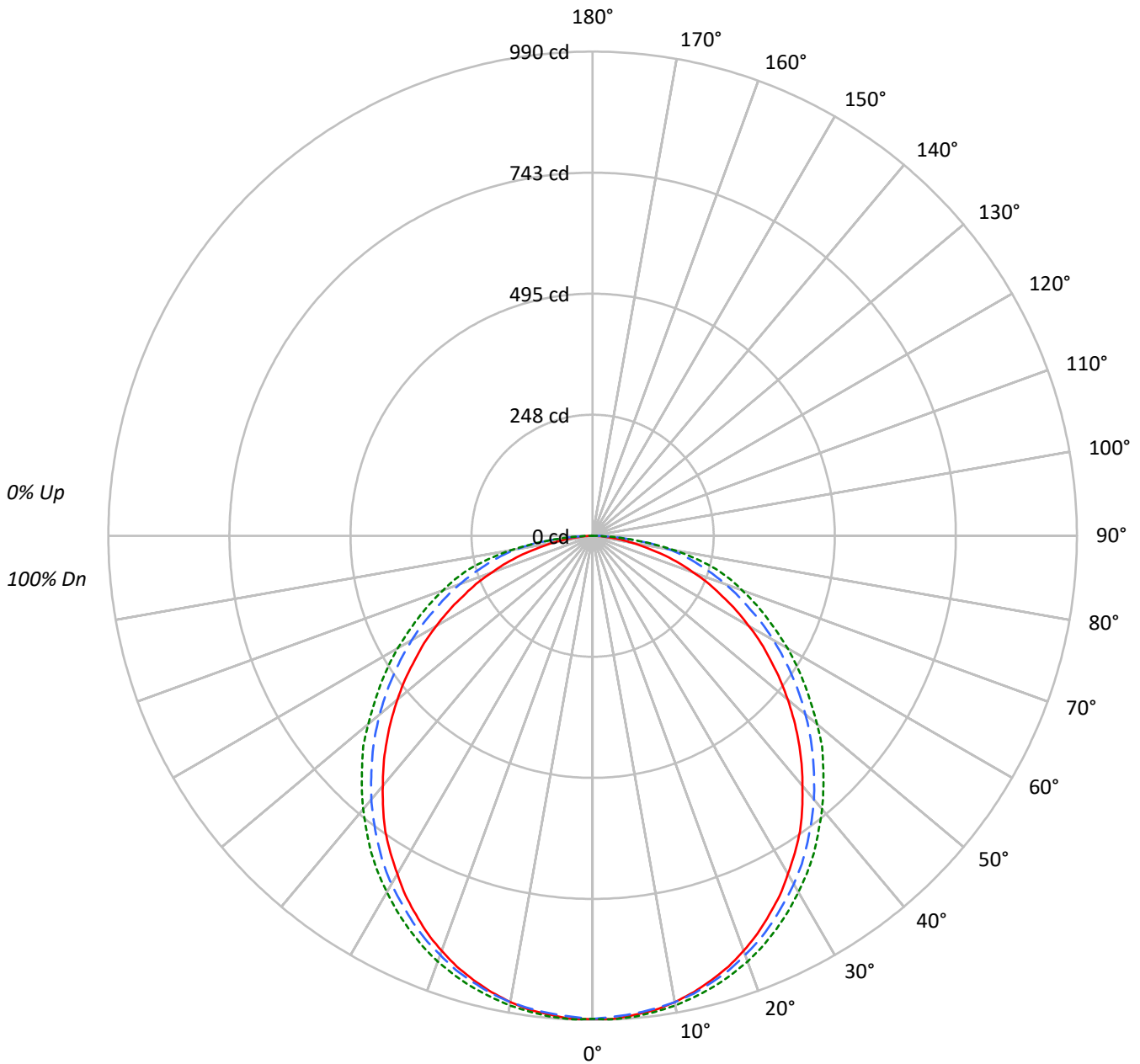
Lumens per Lamp: N/A
Luminaire Lumens: 2812.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1394	1394	1394
5°	1393	1389	1398
10°	1388	1388	1398
15°	1374	1381	1395
20°	1356	1370	1391
25°	1331	1356	1383
30°	1301	1341	1371
35°	1273	1319	1360
40°	1229	1297	1344
45°	1189	1271	1330
50°	1143	1247	1314
55°	1092	1224	1301
60°	1041	1205	1298
65°	975	1184	1306
70°	903	1190	1342
75°	809	1213	1417
80°	653	1285	1387
85°	491	1127	1100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	3.3
10°-20°	267.2	9.5
20°-30°	401.7	14.3
30°-40°	478.5	17.0
40°-50°	489.7	17.4
50°-60°	440.9	15.7
60°-70°	346.2	12.3
70°-80°	224.7	8.0
80°-90°	69.5	2.5
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°	762.4	27.1
0°-40°	1240.9	44.1
0°-60°	2171.5	77.2
0°-90°	2812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2812.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	983	985	981	986	987	93
15°	941	943	945	953	955	265
25°	855	862	871	885	888	394
35°	739	748	766	784	790	461
45°	596	610	637	661	666	459
55°	444	464	498	523	529	398
65°	292	314	355	384	391	291
75°	148	177	222	253	260	157
85°	30	56	70	68	68	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.9	987.9	987.9	987.9	987.9
2.5°	988.8	988.8	984.3	988.8	989.6
5°	983.4	985.2	980.7	986.1	987.0
7.5°	978.0	978.0	975.3	980.7	981.7
10°	968.2	969.1	968.2	974.5	975.3
12.5°	955.7	957.5	958.4	964.7	965.5
15°	940.6	943.3	945.0	953.1	954.9
17.5°	923.6	926.3	930.7	939.6	941.4
20°	903.0	906.6	911.9	923.6	926.3
22.5°	880.7	884.3	893.2	903.9	908.4
25°	854.8	861.9	870.8	885.1	887.8
27.5°	828.9	835.1	846.7	861.9	865.6
30°	798.5	808.3	822.6	837.8	841.3
32.5°	769.0	778.8	795.8	812.0	816.4
35°	738.7	747.6	765.5	784.2	789.6
37.5°	703.8	715.4	735.1	753.9	759.2
40°	667.2	681.5	703.8	723.5	729.7
42.5°	632.4	647.5	669.9	691.3	698.4
45°	595.8	610.1	636.9	661.0	666.4
47.5°	558.2	574.3	602.9	627.0	635.9
50°	520.8	537.8	568.1	593.1	598.5
52.5°	483.2	501.1	533.2	560.0	562.7
55°	443.9	463.6	497.5	523.4	528.8
57.5°	408.2	425.2	461.8	488.6	494.8
60°	368.9	387.6	426.9	452.0	460.0
62.5°	331.4	351.0	392.2	417.1	424.2
65°	292.1	314.5	354.6	384.1	391.2
67.5°	258.2	279.6	322.4	351.0	358.1
70°	218.8	243.0	288.5	318.0	325.1
72.5°	184.9	209.9	255.5	284.0	294.8
75°	148.3	176.8	222.4	252.8	259.9
77.5°	112.6	145.6	192.0	215.2	215.2
80°	80.4	115.3	158.1	168.9	170.6
82.5°	52.7	86.6	117.0	116.1	116.1
85°	30.3	56.3	69.6	67.9	67.9
87.5°	11.6	23.2	25.0	25.0	24.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)