

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: P842890

Luminaire Tested: **22CZ2-20HE-HRP-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294823)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-HRP-UNV-B35
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

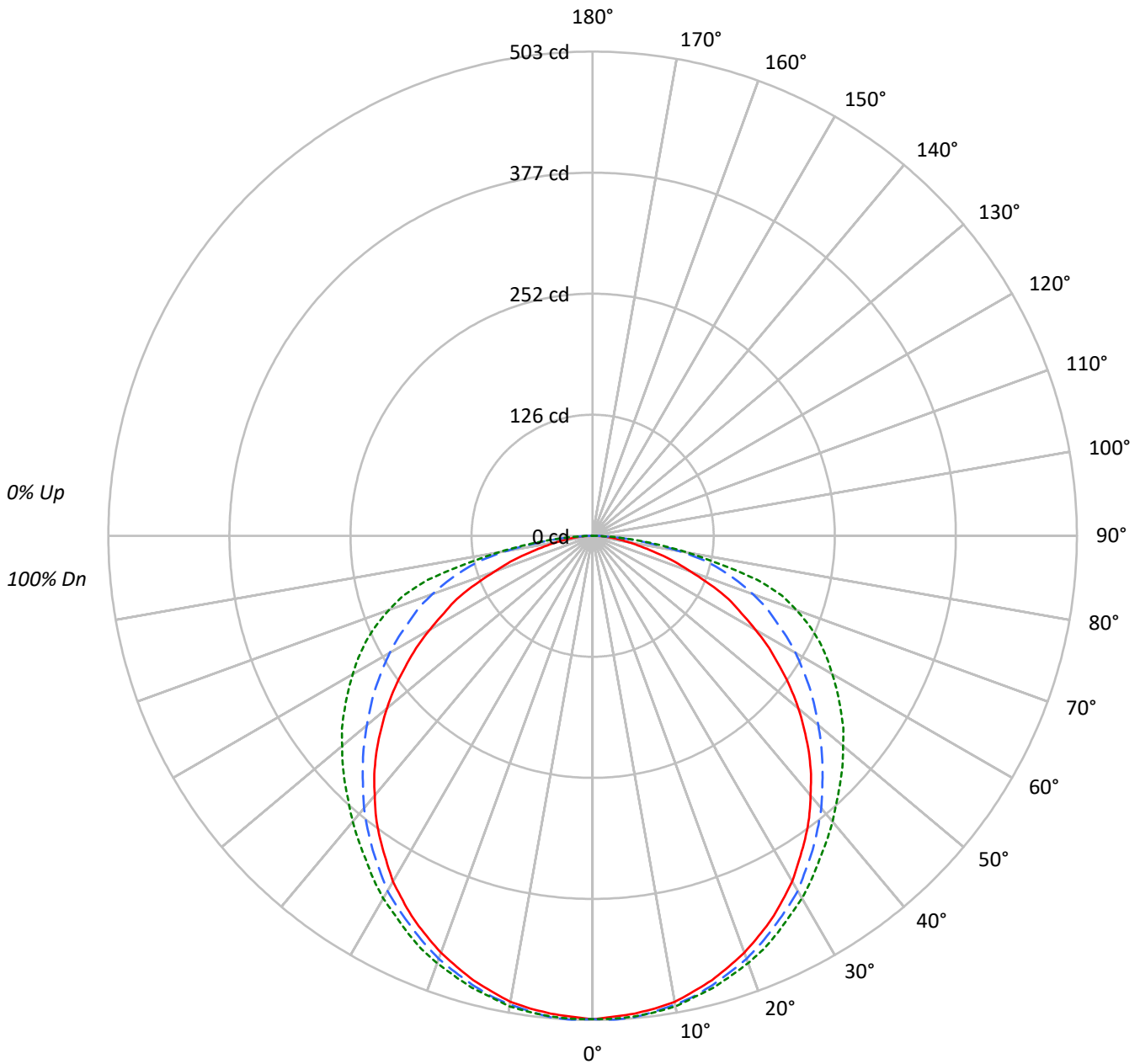
Lumens per Lamp: N/A
Luminaire Lumens: 1525.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 16
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	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1425	1425	1425
5°	1419	1430	1428
10°	1416	1425	1430
15°	1404	1419	1427
20°	1391	1412	1426
25°	1376	1400	1425
30°	1359	1396	1425
35°	1333	1380	1423
40°	1304	1368	1436
45°	1274	1355	1459
50°	1232	1350	1499
55°	1176	1361	1556
60°	1108	1381	1632
65°	1047	1408	1744
70°	894	1468	1868
75°	749	1529	1941
80°	613	1477	1619
85°	534	1097	1188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	3.1
10°-20°	136.1	8.9
20°-30°	206.3	13.5
30°-40°	249.1	16.3
40°-50°	261.8	17.2
50°-60°	246.3	16.2
60°-70°	205.4	13.5
70°-80°	136.1	8.9
80°-90°	36.3	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°	390.1	25.6
0°-40°	639.2	41.9
0°-60°	1147.3	75.2
0°-90°	1525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	498	499	502	502	501	47
15°	478	480	483	485	486	135
25°	440	442	447	453	455	202
35°	385	389	398	407	411	241
45°	318	322	338	355	364	245
55°	238	248	275	303	315	213
65°	156	169	210	244	260	152
75°	68	95	140	168	177	74
85°	16	25	34	36	36	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	502.2	502.2	502.2	502.2	502.2
2.5°	500.2	501.3	503.2	503.2	502.2
5°	498.3	499.2	502.2	502.2	501.3
7.5°	495.4	496.4	498.3	500.2	499.2
10°	491.6	492.5	494.5	496.4	496.4
12.5°	484.9	485.8	489.7	490.6	490.6
15°	478.1	480.0	482.9	484.9	485.8
17.5°	469.5	471.4	475.2	479.1	479.1
20°	460.8	462.7	467.6	471.4	472.4
22.5°	450.3	453.1	457.9	462.7	464.6
25°	439.6	442.5	447.3	453.1	455.0
27.5°	427.1	430.0	436.8	443.5	444.4
30°	414.7	417.5	426.1	432.0	434.9
32.5°	399.3	403.1	411.7	420.4	423.3
35°	384.8	388.6	398.3	406.9	410.7
37.5°	369.4	373.2	383.9	394.4	399.3
40°	352.1	356.9	369.4	381.0	387.7
42.5°	335.7	340.5	353.0	368.5	375.1
45°	317.5	322.2	337.6	355.0	363.7
47.5°	298.2	304.0	322.2	343.5	352.1
50°	279.0	285.7	305.9	330.0	339.6
52.5°	258.8	267.4	290.6	316.5	328.1
55°	237.7	248.2	275.2	303.0	314.6
57.5°	217.4	227.0	258.8	288.6	301.1
60°	195.3	207.8	243.4	274.2	287.6
62.5°	174.1	187.6	227.0	259.8	274.2
65°	155.9	169.3	209.7	244.4	259.8
67.5°	131.7	150.0	195.3	228.0	243.4
70°	107.7	132.8	177.0	210.7	225.1
72.5°	89.5	113.5	158.7	192.4	205.9
75°	68.3	95.2	139.5	168.4	177.0
77.5°	51.0	78.8	119.3	133.8	134.7
80°	37.5	60.6	90.4	95.2	99.1
82.5°	25.9	42.3	58.6	64.5	66.4
85°	16.4	25.0	33.7	36.5	36.5
87.5°	8.6	9.7	11.6	11.6	11.6
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)