

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: P731945

Luminaire Tested: **22CZ2-20HE-HRP-B2750-W2D-5000K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731945  
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-B2750-W2D-5000K  
Description: 2X2 2000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

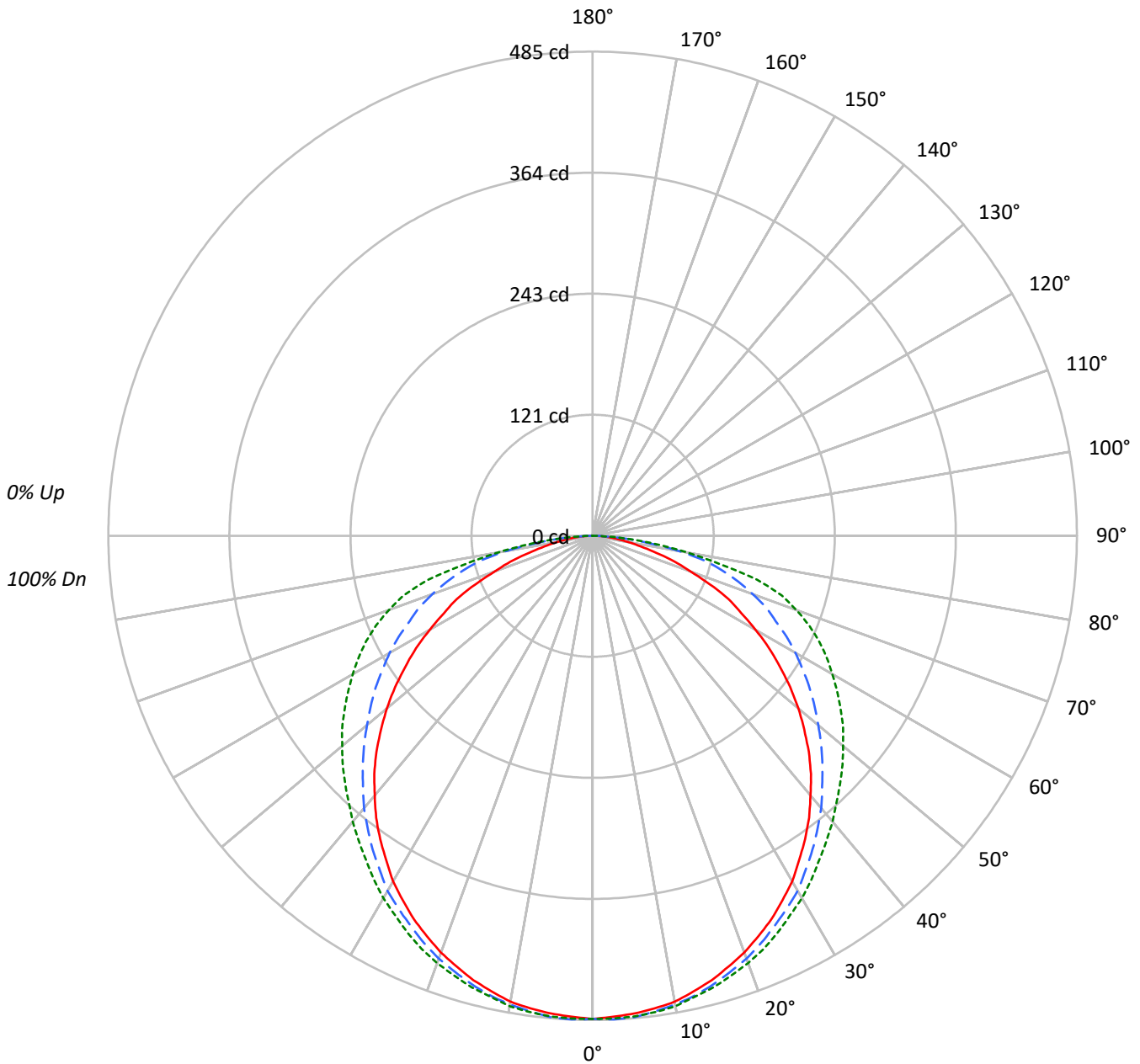
Lumens per Lamp: N/A  
Luminaire Lumens: 1470.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 16  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					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	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	83	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°	1373	1373	1373
5°	1368	1379	1376
10°	1365	1374	1379
15°	1354	1367	1375
20°	1341	1361	1375
25°	1327	1350	1373
30°	1310	1346	1374
35°	1285	1330	1371
40°	1257	1319	1384
45°	1228	1306	1407
50°	1187	1302	1445
55°	1133	1312	1500
60°	1069	1331	1574
65°	1009	1357	1681
70°	861	1415	1800
75°	721	1475	1870
80°	592	1425	1561
85°	514	1058	1146



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	3.1
10°-20°	131.2	8.9
20°-30°	198.9	13.5
30°-40°	240.1	16.3
40°-50°	252.3	17.2
50°-60°	237.4	16.2
60°-70°	198.0	13.5
70°-80°	131.2	8.9
80°-90°	35.0	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°	376.0	25.6
0°-40°	616.1	41.9
0°-60°	1105.9	75.2
0°-90°	1470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1470.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	480	481	484	484	483	46
15°	461	463	466	467	468	130
25°	424	427	431	437	439	195
35°	371	375	384	392	396	232
45°	306	311	325	342	351	236
55°	229	239	265	292	303	205
65°	150	163	202	236	250	146
75°	66	92	134	162	171	71
85°	16	24	32	35	35	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	484.0	484.0	484.0	484.0	484.0
2.5°	482.2	483.2	485.0	485.0	484.0
5°	480.4	481.2	484.0	484.0	483.2
7.5°	477.5	478.5	480.4	482.2	481.2
10°	473.9	474.7	476.7	478.5	478.5
12.5°	467.4	468.2	472.0	472.9	472.9
15°	460.9	462.7	465.5	467.4	468.2
17.5°	452.5	454.4	458.1	461.8	461.8
20°	444.2	446.0	450.7	454.4	455.4
22.5°	434.0	436.7	441.4	446.0	447.9
25°	423.7	426.6	431.2	436.7	438.6
27.5°	411.7	414.5	421.0	427.5	428.4
30°	399.7	402.4	410.7	416.4	419.2
32.5°	384.9	388.6	396.9	405.2	408.0
35°	370.9	374.6	383.9	392.2	395.9
37.5°	356.1	359.8	370.0	380.2	384.9
40°	339.4	344.1	356.1	367.2	373.7
42.5°	323.6	328.3	340.3	355.2	361.6
45°	306.1	310.6	325.4	342.2	350.6
47.5°	287.4	293.1	310.6	331.1	339.4
50°	268.9	275.4	294.9	318.1	327.4
52.5°	249.4	257.8	280.1	305.1	316.2
55°	229.1	239.3	265.2	292.1	303.2
57.5°	209.6	218.8	249.4	278.2	290.3
60°	188.3	200.3	234.6	264.3	277.3
62.5°	167.8	180.8	218.8	250.4	264.3
65°	150.3	163.2	202.1	235.6	250.4
67.5°	127.0	144.6	188.3	219.8	234.6
70°	103.8	128.0	170.6	203.1	217.0
72.5°	86.3	109.5	153.0	185.5	198.4
75°	65.8	91.8	134.5	162.3	170.6
77.5°	49.2	76.0	115.0	128.9	129.8
80°	36.2	58.5	87.2	91.8	95.5
82.5°	25.0	40.8	56.5	62.1	64.0
85°	15.8	24.1	32.5	35.2	35.2
87.5°	8.3	9.3	11.2	11.2	11.2
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)