

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: P732118

Luminaire Tested: **24CZ2-30HE-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-30HE-HRP-B2750-W2D-3500K  
Description: 2X4 3000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

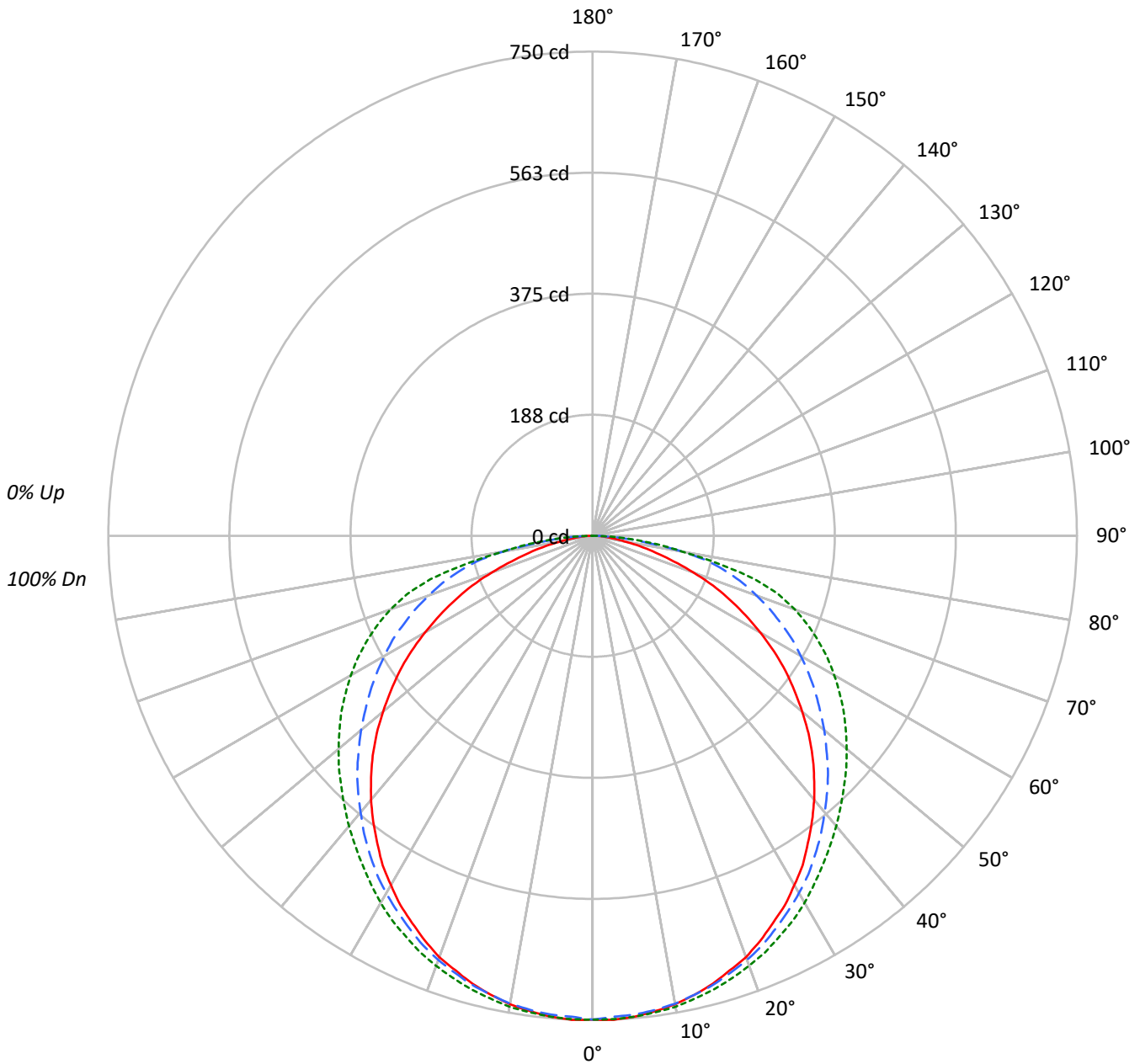
Lumens per Lamp: N/A  
Luminaire Lumens: 2310.0 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 22  
Input Voltage (V): NR  
Input Current (A<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									
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	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	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	38	50	43	38	49	42	38	36																			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28																			
9	55	41	33	27	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	24	35	29	24	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1058	1058	1058
5°	1059	1055	1059
10°	1056	1055	1062
15°	1050	1053	1063
20°	1043	1050	1065
25°	1030	1045	1066
30°	1018	1042	1070
35°	1001	1037	1071
40°	983	1030	1081
45°	961	1029	1098
50°	930	1028	1127
55°	897	1035	1168
60°	846	1051	1220
65°	782	1076	1288
70°	683	1113	1373
75°	553	1171	1418
80°	408	1148	1148
85°	314	847	955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.0	3.1
10°-20°	203.9	8.8
20°-30°	310.4	13.4
30°-40°	376.9	16.3
40°-50°	398.2	17.2
50°-60°	375.7	16.3
60°-70°	312.4	13.5
70°-80°	205.5	8.9
80°-90°	56.0	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°	585.3	25.3
0°-40°	962.1	41.7
0°-60°	1736.0	75.2
0°-90°	2310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2310.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	748	748	745	748	748	71
15°	718	720	720	727	727	203
25°	662	665	671	683	685	305
35°	581	588	602	617	622	364
45°	482	491	516	541	550	371
55°	364	380	421	460	475	325
65°	234	261	322	369	386	231
75°	102	148	215	254	260	109
85°	19	43	52	58	59	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	749.5	749.5	749.5	749.5	749.5
2.5°	750.5	749.5	745.6	749.5	749.5
5°	747.6	747.6	744.6	747.6	747.6
7.5°	742.7	742.7	740.8	744.6	744.6
10°	737.0	737.0	735.9	740.8	740.8
12.5°	728.2	729.2	728.2	734.0	734.0
15°	718.5	719.5	720.4	727.3	727.3
17.5°	706.0	707.9	709.8	717.6	718.5
20°	694.4	695.3	699.2	707.9	708.8
22.5°	678.8	681.8	686.6	695.3	698.2
25°	661.5	665.3	671.2	682.8	684.7
27.5°	645.0	648.0	655.6	668.2	672.1
30°	624.8	629.6	639.2	651.8	656.6
32.5°	605.4	610.2	621.8	635.4	639.2
35°	581.2	587.9	601.6	617.0	621.8
37.5°	558.0	564.7	581.2	598.6	604.4
40°	533.8	541.5	559.0	579.3	587.0
42.5°	507.7	518.3	537.7	559.9	568.7
45°	481.6	491.3	515.5	540.6	550.3
47.5°	453.5	465.1	491.3	521.2	532.8
50°	423.6	438.1	468.1	501.0	513.5
52.5°	393.6	410.0	443.8	480.7	494.2
55°	364.5	380.1	420.6	460.3	474.8
57.5°	332.7	352.0	396.5	439.0	453.5
60°	299.8	321.1	372.3	416.8	432.2
62.5°	266.9	291.1	349.1	393.6	410.0
65°	234.1	261.1	322.1	369.4	385.8
67.5°	202.1	232.1	296.8	344.3	360.7
70°	165.4	203.1	269.8	316.2	332.7
72.5°	131.6	175.1	243.7	287.3	301.7
75°	101.5	147.9	214.7	254.4	260.1
77.5°	74.5	120.9	184.7	198.3	199.2
80°	50.2	96.8	141.2	139.2	141.2
82.5°	32.9	72.5	89.0	99.6	100.6
85°	19.4	42.6	52.3	58.0	59.0
87.5°	9.7	14.5	18.4	19.4	21.3
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)