

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: P731918

Luminaire Tested: **14CZ2-44-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P294787)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-HRP-B2750-W2D-3500K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

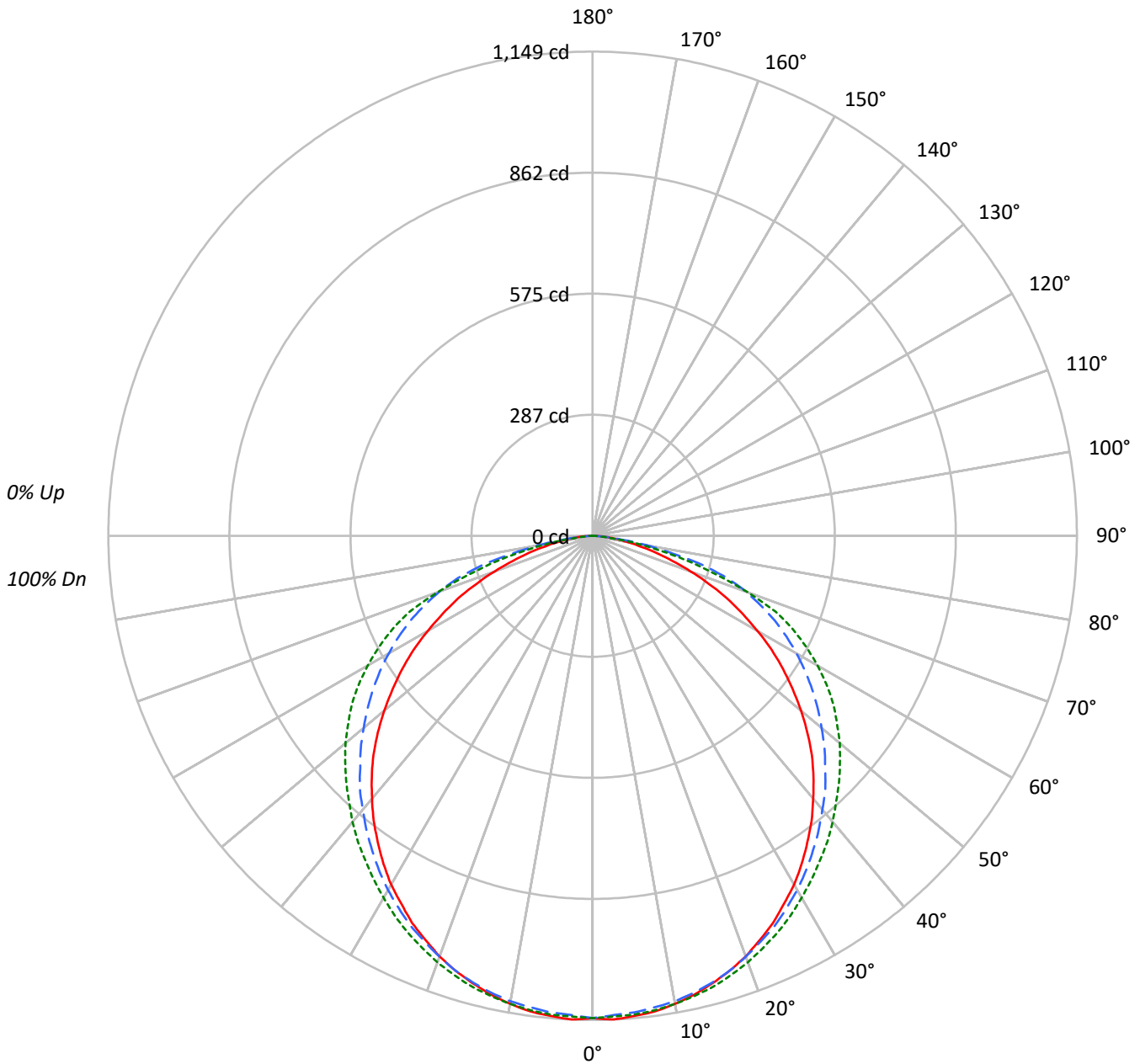
Lumens per Lamp: N/A  
Luminaire Lumens: 3371.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 36  
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	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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84												
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69												
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58												
4	82	70	61	54	80	68	60	54	66	59	53	64	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	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37												
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33												
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29												
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26												
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24												

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

	0°	45°	90°
0°	3231	3231	3231
5°	3241	3217	3232
10°	3233	3215	3233
15°	3212	3206	3237
20°	3190	3193	3235
25°	3157	3182	3235
30°	3116	3164	3233
35°	3061	3141	3240
40°	3000	3125	3265
45°	2936	3114	3300
50°	2834	3113	3361
55°	2713	3130	3433
60°	2549	3153	3477
65°	2351	3186	3497
70°	2048	3192	3219
75°	1688	2973	2601
80°	1326	2136	1739
85°	1033	826	408



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.4	3.2
10°-20°	311.0	9.2
20°-30°	472.3	14.0
30°-40°	572.3	17.0
40°-50°	603.0	17.9
50°-60°	563.0	16.7
60°-70°	449.9	13.3
70°-80°	247.6	7.3
80°-90°	43.7	1.3
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°	891.6	26.4
0°-40°	1463.9	43.4
0°-60°	2629.8	78.0
0°-90°	3371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1144	1141	1135	1143	1141	109
15°	1099	1099	1097	1108	1108	310
25°	1014	1015	1022	1037	1039	466
35°	888	897	912	935	940	556
45°	736	750	780	815	827	566
55°	551	579	636	681	698	492
65°	352	396	477	516	524	346
75°	155	222	273	245	238	167
85°	32	40	26	16	13	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1144.7	1144.7	1144.7	1144.7	1144.7
2.5°	1149.0	1145.7	1138.5	1144.7	1141.7
5°	1143.9	1140.6	1135.3	1142.8	1140.6
7.5°	1138.5	1134.2	1128.8	1137.4	1135.3
10°	1127.8	1124.6	1121.6	1128.8	1127.8
12.5°	1115.2	1114.1	1110.9	1119.5	1118.4
15°	1099.3	1099.3	1097.2	1107.7	1107.7
17.5°	1082.2	1081.1	1082.2	1094.0	1092.9
20°	1062.0	1062.0	1063.1	1077.1	1077.1
22.5°	1037.6	1038.7	1041.9	1058.8	1057.8
25°	1013.5	1015.4	1021.8	1036.6	1038.7
27.5°	983.7	989.1	996.3	1014.3	1016.4
30°	956.1	959.3	970.8	988.0	992.0
32.5°	923.4	929.5	942.4	961.5	966.8
35°	888.2	896.8	911.6	934.9	940.3
37.5°	853.3	860.9	881.0	905.1	914.8
40°	814.2	826.8	848.0	875.6	886.1
42.5°	775.8	788.7	817.4	845.8	855.5
45°	735.6	749.5	780.1	815.2	826.8
47.5°	691.0	707.1	746.3	783.3	795.9
50°	645.4	665.6	709.0	750.6	765.4
52.5°	598.0	623.2	673.1	716.5	730.5
55°	551.3	578.6	636.0	680.6	697.5
57.5°	503.5	533.3	598.0	648.7	658.3
60°	451.5	487.7	558.5	603.1	615.9
62.5°	400.8	442.1	518.3	560.7	571.4
65°	352.0	396.5	477.0	516.1	523.6
67.5°	298.8	352.0	431.4	467.6	469.5
70°	248.1	309.6	386.8	403.7	390.1
72.5°	198.2	264.0	335.1	321.1	309.6
75°	154.8	221.6	272.6	244.9	238.5
77.5°	114.5	181.3	195.0	180.3	168.5
80°	81.6	143.0	131.4	112.4	107.0
82.5°	56.1	90.1	72.2	56.1	48.8
85°	31.9	40.2	25.5	15.8	12.6
87.5°	13.7	9.7	5.4	4.3	4.3
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)