

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: P731916

Luminaire Tested: **14CZ2-44-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731916  
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-2700K  
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

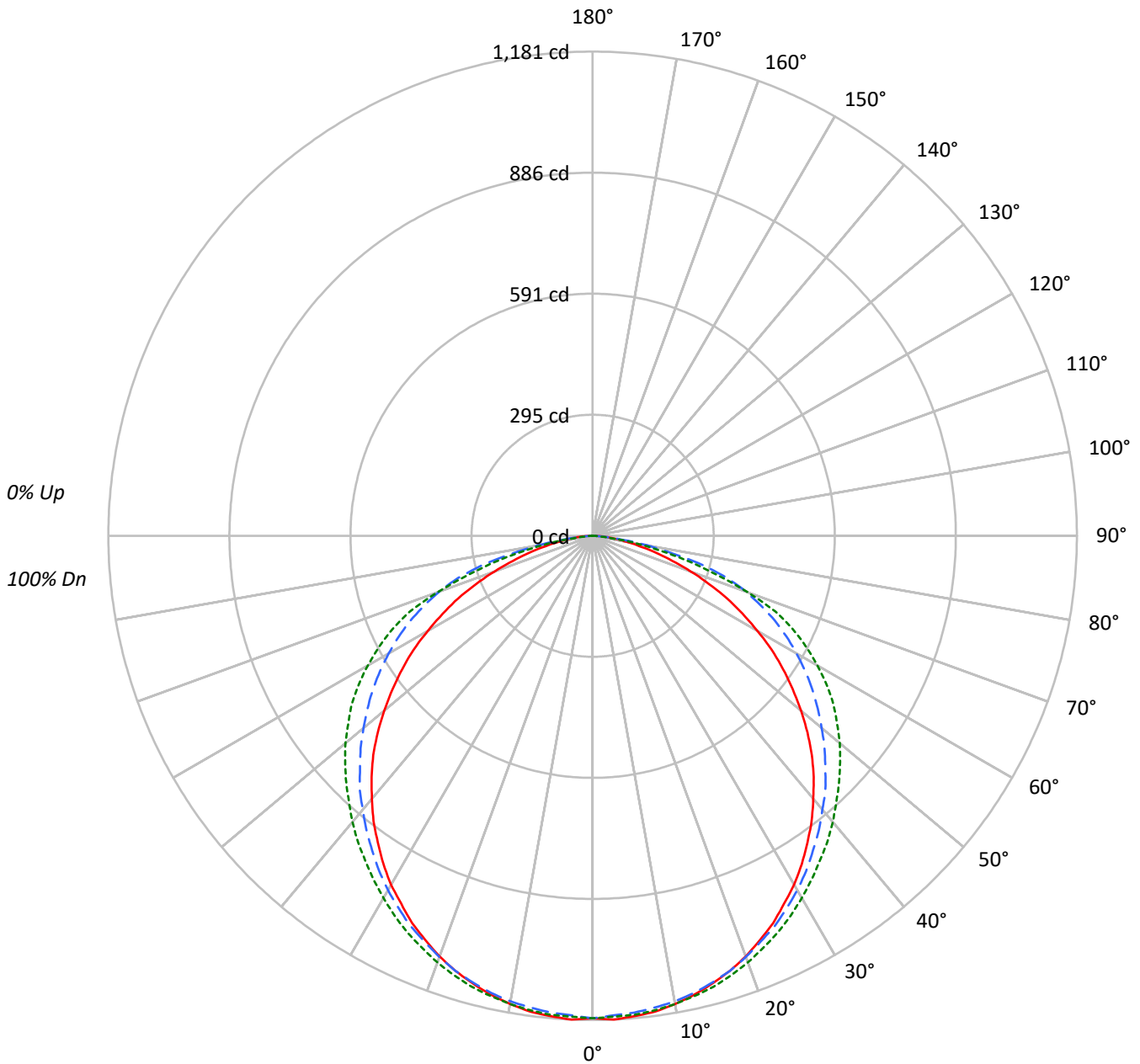
Lumens per Lamp: N/A  
Luminaire Lumens: 3466.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

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									
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	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°	3322	3322	3322
5°	3332	3307	3323
10°	3324	3305	3324
15°	3303	3297	3328
20°	3280	3283	3326
25°	3246	3272	3326
30°	3204	3253	3325
35°	3147	3229	3331
40°	3085	3213	3357
45°	3019	3202	3393
50°	2914	3201	3456
55°	2789	3218	3529
60°	2621	3242	3575
65°	2417	3275	3596
70°	2105	3282	3309
75°	1735	3056	2674
80°	1362	2198	1790
85°	1062	849	421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	3.2
10°-20°	319.8	9.2
20°-30°	485.6	14.0
30°-40°	588.4	17.0
40°-50°	620.0	17.9
50°-60°	578.8	16.7
60°-70°	462.6	13.3
70°-80°	254.5	7.3
80°-90°	44.9	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°	916.8	26.5
0°-40°	1505.1	43.4
0°-60°	2703.9	78.0
0°-90°	3466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1177	1177	1177	1177	1177	
5°	1176	1173	1167	1175	1173	112
15°	1130	1130	1128	1139	1139	319
25°	1042	1044	1051	1066	1068	480
35°	913	922	937	961	967	571
45°	756	771	802	838	850	582
55°	567	595	654	700	717	506
65°	362	408	490	531	538	356
75°	159	228	280	252	245	171
85°	33	41	26	16	13	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1176.9	1176.9	1176.9	1176.9	1176.9
2.5°	1181.3	1178.0	1170.6	1176.9	1173.9
5°	1176.1	1172.8	1167.3	1175.0	1172.8
7.5°	1170.6	1166.2	1160.7	1169.5	1167.3
10°	1159.6	1156.2	1153.2	1160.7	1159.6
12.5°	1146.6	1145.5	1142.2	1151.0	1149.9
15°	1130.3	1130.3	1128.1	1138.9	1138.9
17.5°	1112.7	1111.6	1112.7	1124.8	1123.7
20°	1092.0	1092.0	1093.1	1107.4	1107.4
22.5°	1066.9	1068.0	1071.3	1088.7	1087.6
25°	1042.1	1044.0	1050.6	1065.8	1068.0
27.5°	1011.4	1017.0	1024.4	1042.9	1045.1
30°	983.0	986.3	998.2	1015.9	1020.0
32.5°	949.4	955.7	969.0	988.5	994.1
35°	913.2	922.1	937.2	961.2	966.8
37.5°	877.4	885.1	905.8	930.6	940.6
40°	837.1	850.1	871.9	900.3	911.0
42.5°	797.7	810.9	840.4	869.7	879.6
45°	756.3	770.6	802.1	838.2	850.1
47.5°	710.5	727.1	767.3	805.4	818.4
50°	663.6	684.3	729.0	771.7	786.9
52.5°	614.8	640.7	692.0	736.7	751.1
55°	566.8	594.9	654.0	699.8	717.1
57.5°	517.7	548.3	614.8	666.9	676.9
60°	464.2	501.4	574.3	620.0	633.3
62.5°	412.1	454.6	532.9	576.5	587.5
65°	361.9	407.7	490.4	530.7	538.4
67.5°	307.3	361.9	443.5	480.8	482.7
70°	255.1	318.3	397.7	415.1	401.0
72.5°	203.8	271.4	344.5	330.2	318.3
75°	159.1	227.8	280.2	251.8	245.2
77.5°	117.8	186.5	200.5	185.4	173.2
80°	83.8	147.0	135.2	115.6	110.1
82.5°	57.6	92.7	74.2	57.6	50.2
85°	32.8	41.4	26.2	16.3	13.0
87.5°	14.1	9.9	5.5	4.4	4.4
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)