

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: P732141

Luminaire Tested: **24CZ2-35-HRP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732141  
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: 24CZ2-35-HRP-B2750-W2D-2700K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

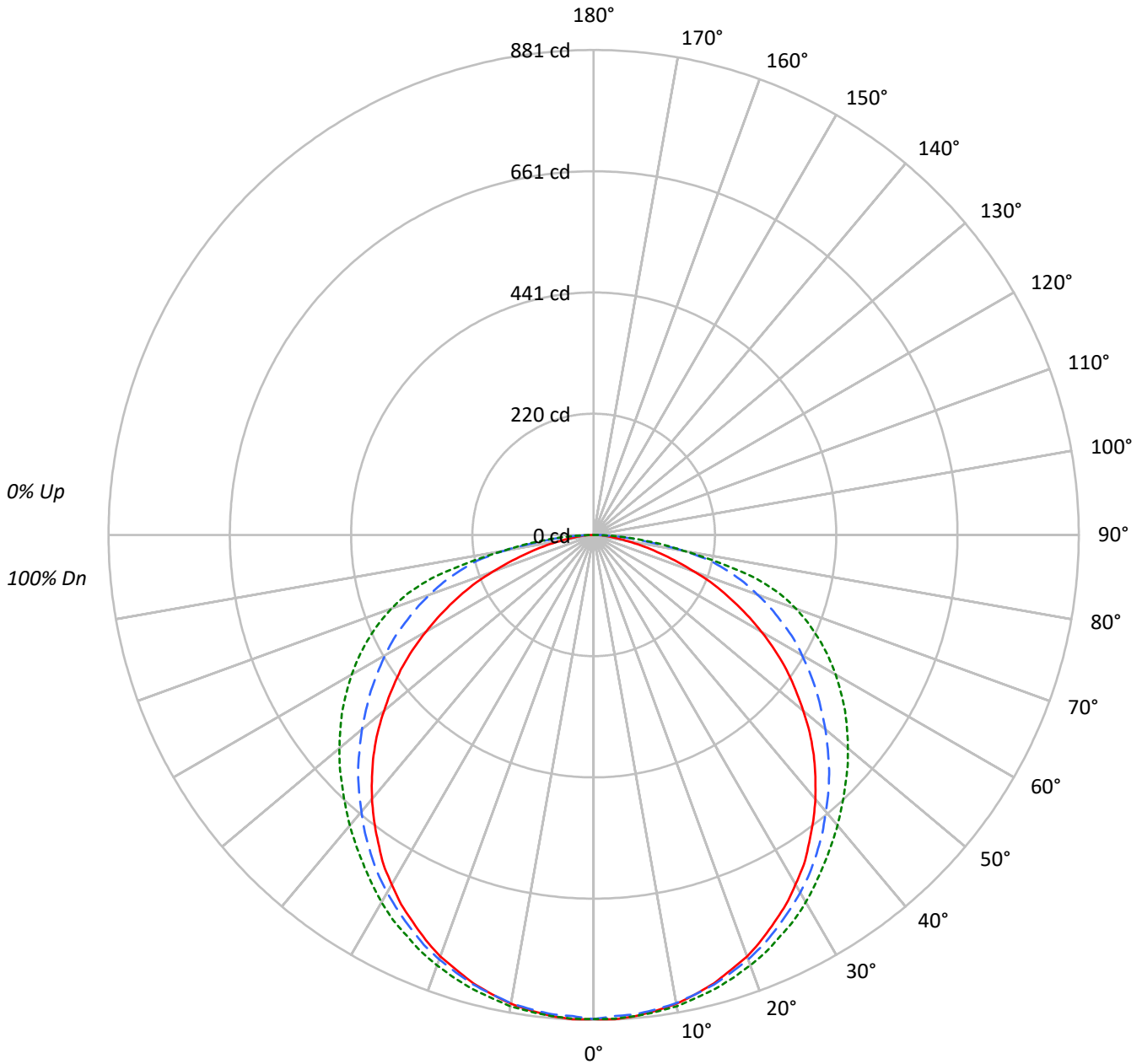
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2711.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 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): 28  
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°	1241	1241	1241
5°	1243	1238	1243
10°	1239	1238	1246
15°	1232	1235	1247
20°	1224	1232	1249
25°	1209	1227	1251
30°	1195	1223	1256
35°	1175	1216	1257
40°	1154	1209	1269
45°	1128	1207	1289
50°	1091	1206	1323
55°	1053	1215	1371
60°	993	1233	1432
65°	917	1262	1512
70°	801	1306	1611
75°	650	1374	1665
80°	480	1348	1348
85°	368	993	1121



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	3.1
10°-20°	239.3	8.8
20°-30°	364.3	13.4
30°-40°	442.3	16.3
40°-50°	467.3	17.2
50°-60°	440.9	16.3
60°-70°	366.6	13.5
70°-80°	241.2	8.9
80°-90°	65.8	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°	686.9	25.3
0°-40°	1129.2	41.7
0°-60°	2037.4	75.2
0°-90°	2711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2711.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	877	877	874	877	877	83
15°	843	844	846	854	854	238
25°	776	781	788	801	804	358
35°	682	690	706	724	730	427
45°	565	577	605	634	646	435
55°	428	446	494	540	557	381
65°	275	306	378	434	453	272
75°	119	174	252	298	305	128
85°	23	50	61	68	69	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	879.6	879.6	879.6	879.6	879.6
2.5°	880.7	879.6	875.0	879.6	879.6
5°	877.4	877.4	873.9	877.4	877.4
7.5°	871.6	871.6	869.4	873.9	873.9
10°	864.9	864.9	863.6	869.4	869.4
12.5°	854.6	855.8	854.6	861.4	861.4
15°	843.3	844.4	845.5	853.5	853.5
17.5°	828.5	830.8	833.0	842.1	843.3
20°	814.9	816.0	820.5	830.8	831.9
22.5°	796.7	800.2	805.8	816.0	819.4
25°	776.3	780.8	787.7	801.3	803.5
27.5°	756.9	760.5	769.4	784.2	788.8
30°	733.2	738.8	750.2	764.9	770.6
32.5°	710.5	716.1	729.7	745.7	750.2
35°	682.1	690.0	706.0	724.1	729.7
37.5°	654.9	662.8	682.1	702.5	709.4
40°	626.4	635.5	656.0	679.9	688.9
42.5°	595.8	608.3	631.0	657.2	667.4
45°	565.2	576.6	604.9	634.4	645.8
47.5°	532.2	545.8	576.6	611.7	625.3
50°	497.1	514.1	549.4	588.0	602.7
52.5°	461.9	481.1	520.9	564.1	580.0
55°	427.8	446.1	493.6	540.2	557.2
57.5°	390.5	413.1	465.3	515.3	532.2
60°	351.9	376.9	436.9	489.1	507.3
62.5°	313.3	341.6	409.7	461.9	481.1
65°	274.7	306.4	378.0	433.6	452.8
67.5°	237.2	272.4	348.4	404.1	423.3
70°	194.1	238.3	316.6	371.1	390.5
72.5°	154.4	205.5	286.0	337.1	354.1
75°	119.2	173.6	251.9	298.5	305.3
77.5°	87.4	141.9	216.7	232.7	233.8
80°	59.0	113.5	165.8	163.4	165.8
82.5°	38.6	85.1	104.4	116.9	118.0
85°	22.7	50.0	61.3	68.1	69.2
87.5°	11.4	17.0	21.6	22.7	25.0
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)