

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: P732143

Luminaire Tested: **24CZ2-35-HRP-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732143  
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-3500K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

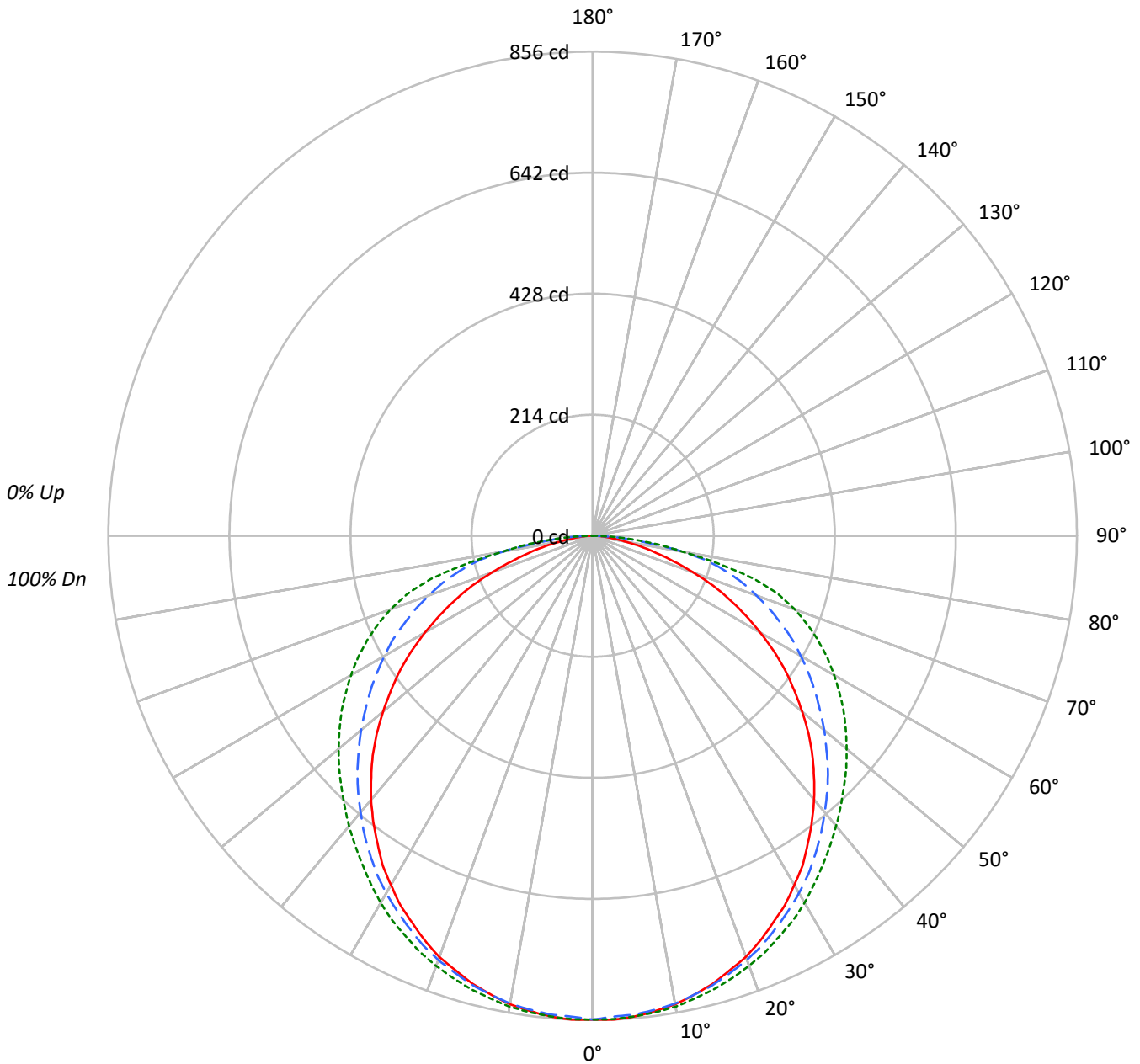
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2636.0 lumens  
Efficiency: N/A  
Efficacy: 94.1 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°	1207	1207	1207
5°	1209	1204	1209
10°	1205	1203	1211
15°	1198	1201	1213
20°	1190	1198	1215
25°	1175	1193	1217
30°	1162	1189	1221
35°	1143	1183	1222
40°	1122	1175	1234
45°	1097	1174	1253
50°	1061	1173	1287
55°	1024	1181	1333
60°	966	1199	1392
65°	892	1227	1470
70°	779	1271	1567
75°	632	1336	1618
80°	466	1310	1310
85°	358	965	1090



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	3.1
10°-20°	232.7	8.8
20°-30°	354.2	13.4
30°-40°	430.1	16.3
40°-50°	454.4	17.2
50°-60°	428.7	16.3
60°-70°	356.5	13.5
70°-80°	234.5	8.9
80°-90°	63.9	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°	667.9	25.3
0°-40°	1097.9	41.7
0°-60°	1981.0	75.2
0°-90°	2636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	853	853	850	853	853	81
15°	820	821	822	830	830	231
25°	755	759	766	779	781	348
35°	663	671	686	704	710	415
45°	550	561	588	617	628	423
55°	416	434	480	525	542	371
65°	267	298	368	422	440	264
75°	116	169	245	290	297	125
85°	22	49	60	66	67	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	855.3	855.3	855.3	855.3	855.3
2.5°	856.4	855.3	850.8	855.3	855.3
5°	853.1	853.1	849.7	853.1	853.1
7.5°	847.5	847.5	845.3	849.7	849.7
10°	841.0	841.0	839.7	845.3	845.3
12.5°	831.0	832.1	831.0	837.5	837.5
15°	819.9	821.0	822.1	829.9	829.9
17.5°	805.6	807.8	810.0	818.8	819.9
20°	792.4	793.5	797.8	807.8	808.9
22.5°	774.6	778.0	783.5	793.5	796.7
25°	754.8	759.2	765.9	779.1	781.3
27.5°	736.0	739.4	748.2	762.5	767.0
30°	712.9	718.4	729.5	743.8	749.2
32.5°	690.8	696.3	709.5	725.1	729.5
35°	663.3	670.9	686.5	704.1	709.5
37.5°	636.8	644.4	663.3	683.1	689.7
40°	609.1	618.0	637.9	661.1	669.8
42.5°	579.3	591.5	613.6	639.0	648.9
45°	549.6	560.6	588.2	616.9	627.9
47.5°	517.5	530.7	560.6	594.8	608.0
50°	483.4	499.9	534.2	571.7	586.0
52.5°	449.1	467.8	506.5	548.5	563.9
55°	416.0	433.7	480.0	525.3	541.8
57.5°	379.7	401.6	452.4	501.0	517.5
60°	342.1	366.4	424.8	475.6	493.2
62.5°	304.6	332.2	398.4	449.1	467.8
65°	267.1	297.9	367.5	421.6	440.3
67.5°	230.6	264.9	338.7	392.9	411.6
70°	188.7	231.7	307.9	360.8	379.7
72.5°	150.1	199.8	278.1	327.8	344.3
75°	115.9	168.8	245.0	290.3	296.8
77.5°	85.0	138.0	210.7	226.3	227.4
80°	57.3	110.4	161.2	158.9	161.2
82.5°	37.5	82.7	101.5	113.7	114.8
85°	22.1	48.6	59.6	66.2	67.3
87.5°	11.1	16.5	21.0	22.1	24.3
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)