

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: P843026

Luminaire Tested: **24CZ2-35HE-HRP-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843026  
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: 24CZ2-35HE-HRP-UNV-B40  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

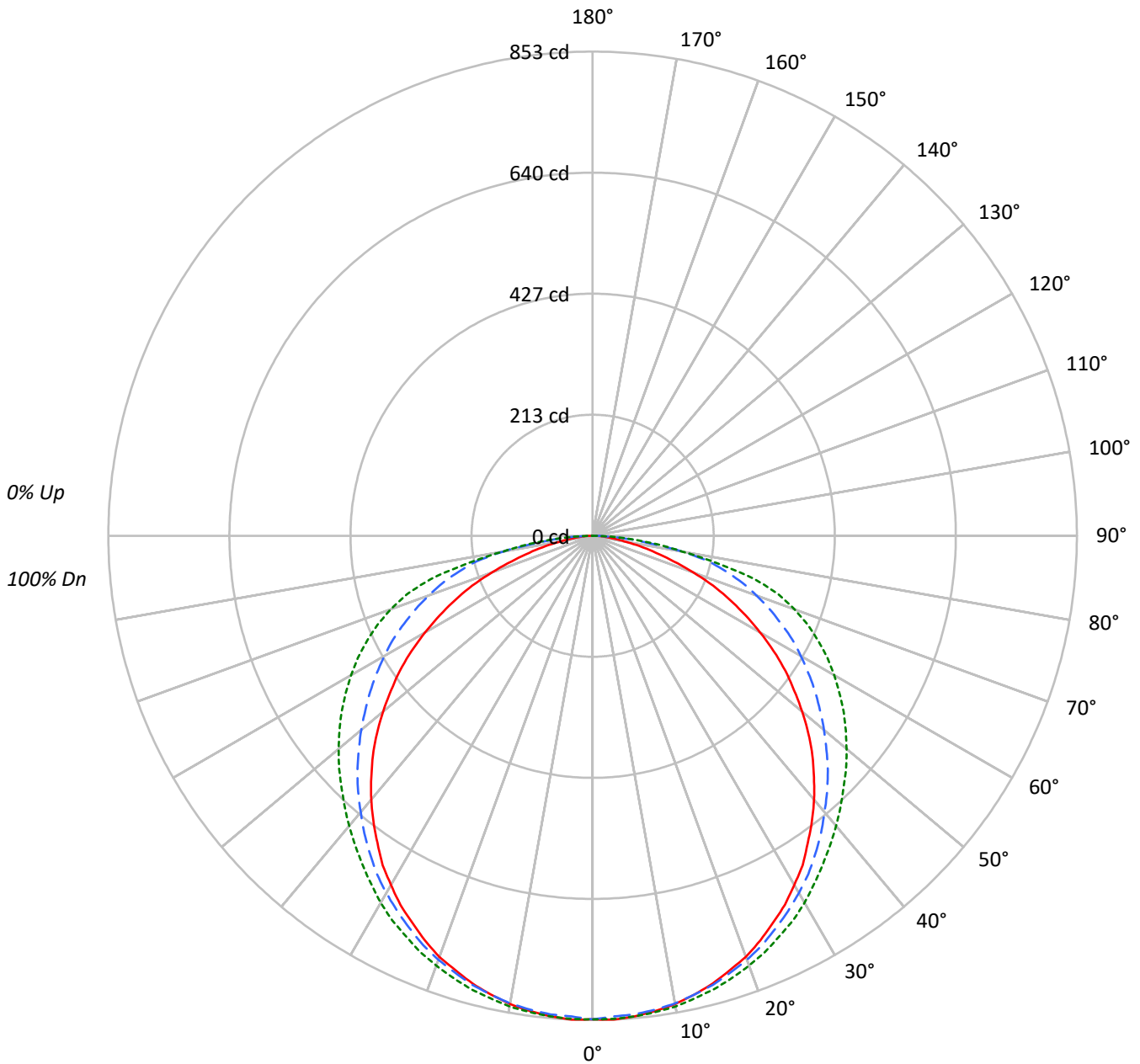
Lumens per Lamp: N/A  
Luminaire Lumens: 2626.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 26  
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°	1202	1202	1202
5°	1204	1199	1204
10°	1201	1199	1207
15°	1193	1197	1208
20°	1186	1194	1210
25°	1171	1188	1212
30°	1157	1184	1216
35°	1138	1178	1218
40°	1118	1171	1229
45°	1093	1170	1248
50°	1057	1168	1282
55°	1020	1177	1328
60°	962	1195	1387
65°	889	1223	1465
70°	776	1266	1561
75°	629	1331	1612
80°	464	1305	1305
85°	356	962	1085



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	3.1
10°-20°	231.8	8.8
20°-30°	352.8	13.4
30°-40°	428.4	16.3
40°-50°	452.6	17.2
50°-60°	427.1	16.3
60°-70°	355.1	13.5
70°-80°	233.7	8.9
80°-90°	63.7	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°	665.3	25.3
0°-40°	1093.8	41.7
0°-60°	1973.5	75.2
0°-90°	2626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	850	850	846	850	850	81
15°	817	818	819	827	827	230
25°	752	756	763	776	778	347
35°	661	668	684	701	707	414
45°	548	558	586	614	626	422
55°	414	432	478	523	540	369
65°	266	297	366	420	439	263
75°	115	168	244	289	296	124
85°	22	48	59	66	67	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	852.0	852.0	852.0	852.0	852.0
2.5°	853.1	852.0	847.6	852.0	852.0
5°	849.9	849.9	846.5	849.9	849.9
7.5°	844.3	844.3	842.1	846.5	846.5
10°	837.8	837.8	836.5	842.1	842.1
12.5°	827.8	828.9	827.8	834.4	834.4
15°	816.8	817.9	819.0	826.8	826.8
17.5°	802.6	804.7	806.9	815.7	816.8
20°	789.4	790.5	794.8	804.7	805.8
22.5°	771.7	775.1	780.5	790.5	793.7
25°	752.0	756.3	763.0	776.2	778.4
27.5°	733.2	736.6	745.3	759.6	764.1
30°	710.2	715.7	726.7	741.0	746.4
32.5°	688.2	693.7	706.8	722.3	726.7
35°	660.7	668.4	683.9	701.4	706.8
37.5°	634.4	642.0	660.7	680.5	687.1
40°	606.8	615.6	635.5	658.6	667.3
42.5°	577.1	589.2	611.3	636.5	646.5
45°	547.5	558.5	586.0	614.5	625.5
47.5°	515.5	528.7	558.5	592.5	605.7
50°	481.6	498.0	532.1	569.5	583.8
52.5°	447.4	466.1	504.5	546.4	561.8
55°	414.4	432.1	478.2	523.3	539.7
57.5°	378.2	400.1	450.7	499.1	515.5
60°	340.8	365.0	423.2	473.8	491.3
62.5°	303.5	330.9	396.9	447.4	466.1
65°	266.1	296.8	366.1	420.0	438.6
67.5°	229.8	263.9	337.4	391.4	410.0
70°	188.0	230.9	306.7	359.5	378.2
72.5°	149.6	199.0	277.1	326.6	343.0
75°	115.4	168.2	244.0	289.2	295.7
77.5°	84.7	137.5	209.9	225.4	226.5
80°	57.1	110.0	160.6	158.3	160.6
82.5°	37.4	82.4	101.2	113.3	114.3
85°	22.0	48.4	59.4	65.9	67.0
87.5°	11.0	16.5	20.9	22.0	24.2
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)