

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: P843025

Luminaire Tested: **24CZ2-35HE-HRP-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843025  
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-B35  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

**Summary**

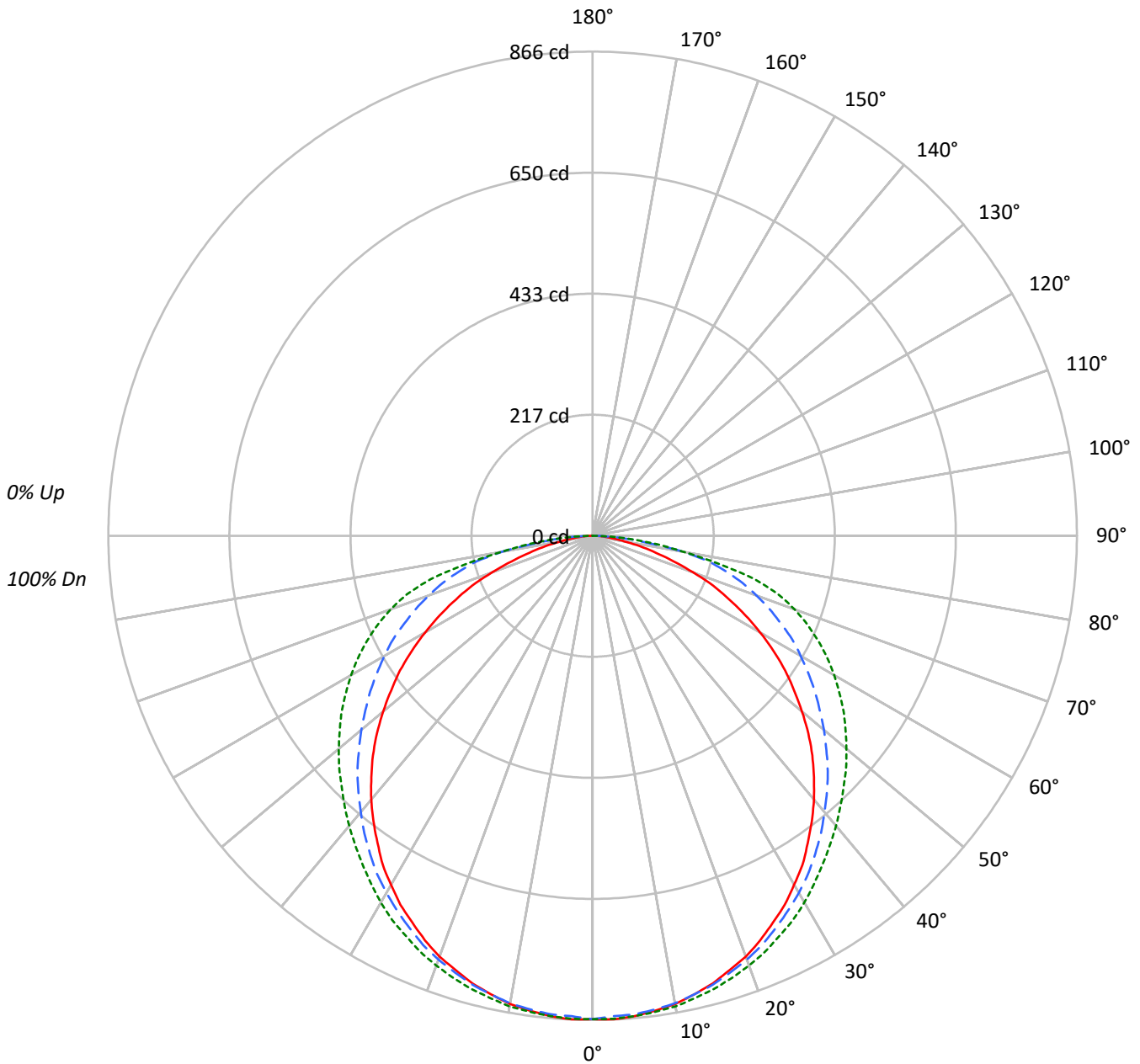
Lumens per Lamp: N/A  
Luminaire Lumens: 2665.0 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P843025

CATALOG NUMBER: 24CZ2-35HE-HRP-UNV-B35

### Luminous Intensity Polar Plot





TEST NUMBER: P843025

CATALOG NUMBER: 24CZ2-35HE-HRP-UNV-B35

**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°	1220	1220	1220
5°	1222	1217	1222
10°	1218	1217	1225
15°	1211	1214	1226
20°	1203	1211	1228
25°	1188	1206	1230
30°	1175	1202	1234
35°	1155	1196	1236
40°	1135	1188	1248
45°	1109	1187	1267
50°	1073	1186	1301
55°	1035	1194	1348
60°	976	1212	1407
65°	902	1241	1486
70°	787	1285	1584
75°	639	1351	1636
80°	471	1324	1324
85°	363	976	1101



TEST NUMBER: P843025

CATALOG NUMBER: 24CZ2-35HE-HRP-UNV-B35

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.9	3.1
10°-20°	235.2	8.8
20°-30°	358.1	13.4
30°-40°	434.8	16.3
40°-50°	459.4	17.2
50°-60°	433.5	16.3
60°-70°	360.4	13.5
70°-80°	237.1	8.9
80°-90°	64.6	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°	675.2	25.3
0°-40°	1110.0	41.7
0°-60°	2002.8	75.2
0°-90°	2665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	862	862	859	862	862	82
15°	829	830	831	839	839	234
25°	763	768	774	788	790	352
35°	671	678	694	712	717	420
45°	556	567	595	624	635	428
55°	421	438	485	531	548	375
65°	270	301	372	426	445	267
75°	117	171	248	294	300	126
85°	22	49	60	67	68	27
90°	0	0	0	0	0	



TEST NUMBER: P843025

CATALOG NUMBER: 24CZ2-35HE-HRP-UNV-B35

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	864.7	864.7	864.7	864.7	864.7
2.5°	865.8	864.7	860.1	864.7	864.7
5°	862.5	862.5	859.0	862.5	862.5
7.5°	856.8	856.8	854.6	859.0	859.0
10°	850.2	850.2	849.0	854.6	854.6
12.5°	840.1	841.2	840.1	846.8	846.8
15°	829.0	830.1	831.2	839.0	839.0
17.5°	814.5	816.7	818.9	827.9	829.0
20°	801.1	802.2	806.6	816.7	817.8
22.5°	783.2	786.6	792.1	802.2	805.5
25°	763.1	767.6	774.3	787.7	789.9
27.5°	744.1	747.6	756.4	770.9	775.4
30°	720.8	726.3	737.5	752.0	757.5
32.5°	698.4	704.0	717.3	733.1	737.5
35°	670.6	678.3	694.0	711.8	717.3
37.5°	643.8	651.5	670.6	690.6	697.3
40°	615.8	624.8	644.9	668.4	677.2
42.5°	585.7	598.0	620.3	646.0	656.1
45°	555.6	566.8	594.7	623.7	634.8
47.5°	523.2	536.6	566.8	601.3	614.7
50°	488.7	505.4	540.0	578.0	592.5
52.5°	454.1	473.0	512.0	554.5	570.1
55°	420.6	438.5	485.3	531.1	547.8
57.5°	383.8	406.1	457.4	506.5	523.2
60°	345.9	370.5	429.5	480.8	498.6
62.5°	308.0	335.8	402.8	454.1	473.0
65°	270.0	301.2	371.6	426.2	445.1
67.5°	233.2	267.8	342.5	397.2	416.1
70°	190.8	234.3	311.3	364.8	383.8
72.5°	151.8	202.0	281.2	331.4	348.1
75°	117.1	170.7	247.7	293.5	300.1
77.5°	86.0	139.5	213.0	228.8	229.9
80°	57.9	111.6	162.9	160.6	162.9
82.5°	37.9	83.6	102.7	114.9	116.0
85°	22.4	49.1	60.3	66.9	68.0
87.5°	11.2	16.7	21.2	22.4	24.6
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)