

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: P732145

Luminaire Tested: **24CZ2-35-HRP-B2750-W2D-5000K**

Issue Date: 1/5/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P732145  
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-5000K  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -  
Ballast/Driver: -

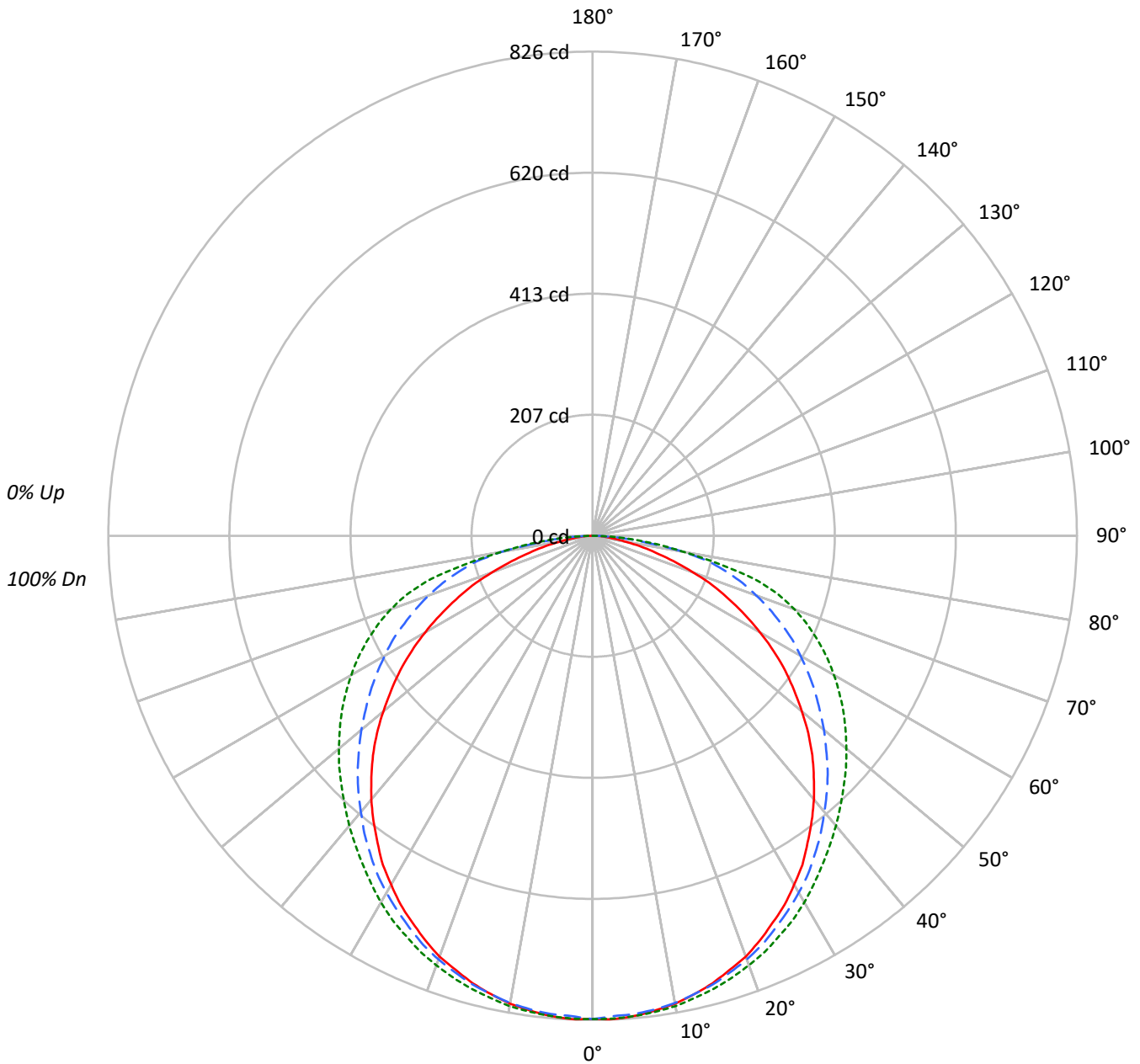
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2541.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 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					20					
RC	80					70					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°	1164	1164	1164
5°	1165	1160	1165
10°	1162	1160	1168
15°	1155	1158	1169
20°	1147	1155	1171
25°	1133	1150	1173
30°	1120	1146	1177
35°	1102	1140	1178
40°	1082	1133	1190
45°	1057	1132	1208
50°	1023	1131	1240
55°	987	1139	1285
60°	931	1156	1342
65°	860	1183	1417
70°	751	1225	1510
75°	609	1287	1560
80°	449	1263	1263
85°	345	931	1051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.1	3.1
10°-20°	224.3	8.8
20°-30°	341.4	13.4
30°-40°	414.6	16.3
40°-50°	438.0	17.2
50°-60°	413.3	16.3
60°-70°	343.6	13.5
70°-80°	226.1	8.9
80°-90°	61.6	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°	643.8	25.3
0°-40°	1058.4	41.7
0°-60°	1909.6	75.2
0°-90°	2541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	822	822	819	822	822	78
15°	790	791	792	800	800	223
25°	728	732	738	751	753	336
35°	639	647	662	679	684	400
45°	530	540	567	595	605	408
55°	401	418	463	506	522	357
65°	258	287	354	406	424	254
75°	112	163	236	280	286	120
85°	21	47	58	64	65	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	824.5	824.5	824.5	824.5	824.5
2.5°	825.5	824.5	820.1	824.5	824.5
5°	822.4	822.4	819.1	822.4	822.4
7.5°	817.0	817.0	814.9	819.1	819.1
10°	810.6	810.6	809.5	814.9	814.9
12.5°	801.0	802.1	801.0	807.4	807.4
15°	790.4	791.4	792.5	800.0	800.0
17.5°	776.6	778.7	780.8	789.3	790.4
20°	763.8	764.9	769.1	778.7	779.7
22.5°	746.7	750.0	755.3	764.9	768.0
25°	727.6	731.8	738.3	751.1	753.2
27.5°	709.5	712.8	721.2	735.0	739.3
30°	687.2	692.5	703.2	717.0	722.2
32.5°	665.9	671.2	684.0	699.0	703.2
35°	639.4	646.7	661.7	678.7	684.0
37.5°	613.8	621.2	639.4	658.4	664.9
40°	587.1	595.7	614.9	637.3	645.7
42.5°	558.5	570.2	591.5	615.9	625.5
45°	529.8	540.4	567.0	594.6	605.3
47.5°	498.9	511.6	540.4	573.3	586.1
50°	466.0	481.9	514.9	551.1	564.9
52.5°	433.0	451.0	488.2	528.7	543.6
55°	401.0	418.1	462.7	506.4	522.3
57.5°	366.0	387.2	436.1	482.9	498.9
60°	329.8	353.2	409.5	458.5	475.4
62.5°	293.6	320.2	384.0	433.0	451.0
65°	257.5	287.2	354.3	406.4	424.4
67.5°	222.3	255.4	326.5	378.7	396.8
70°	181.9	223.4	296.8	347.8	366.0
72.5°	144.7	192.6	268.1	316.0	331.9
75°	111.7	162.7	236.1	279.8	286.1
77.5°	82.0	133.0	203.1	218.1	219.2
80°	55.3	106.4	155.4	153.1	155.4
82.5°	36.2	79.7	97.9	109.6	110.6
85°	21.3	46.8	57.5	63.8	64.9
87.5°	10.7	15.9	20.3	21.3	23.4
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)