

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: P843166

Luminaire Tested: **24CZ2-65HE-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-65HE-S-UNV-B35  
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

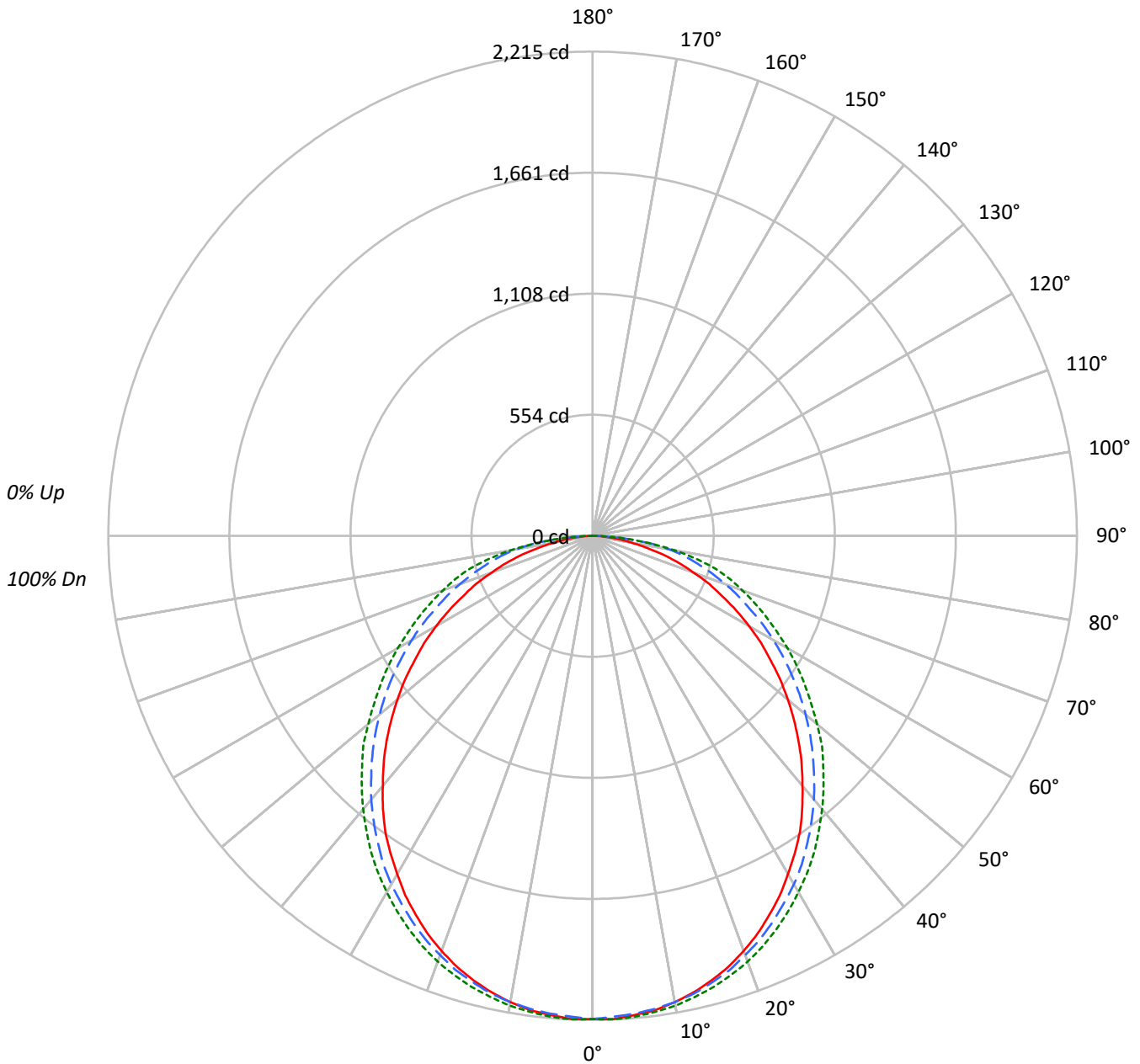
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6293.0 lumens  
Efficiency: N/A  
Efficacy: 125.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 50  
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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3120	3120	3120
5°	3118	3109	3129
10°	3105	3105	3128
15°	3076	3090	3122
20°	3035	3065	3113
25°	2979	3035	3094
30°	2912	3000	3069
35°	2848	2952	3044
40°	2751	2902	3009
45°	2661	2845	2977
50°	2559	2792	2941
55°	2444	2740	2912
60°	2330	2697	2905
65°	2183	2650	2923
70°	2020	2664	3002
75°	1810	2715	3171
80°	1462	2876	3102
85°	1100	2523	2461



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	3.3
10°-20°	598.0	9.5
20°-30°	899.0	14.3
30°-40°	1070.8	17.0
40°-50°	1095.9	17.4
50°-60°	986.7	15.7
60°-70°	774.9	12.3
70°-80°	502.9	8.0
80°-90°	155.5	2.5
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°	1706.3	27.1
0°-40°	2777.1	44.1
0°-60°	4859.7	77.2
0°-90°	6293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2211	2211	2211	2211	2211	
5°	2201	2205	2195	2207	2209	209
15°	2105	2111	2115	2133	2137	594
25°	1913	1929	1949	1981	1987	881
35°	1653	1673	1713	1755	1767	1031
45°	1333	1365	1425	1479	1491	1028
55°	993	1038	1113	1171	1184	891
65°	654	704	794	860	875	651
75°	332	396	498	566	582	351
85°	68	126	156	152	152	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2210.9	2210.9	2210.9	2210.9	2210.9
2.5°	2212.8	2212.8	2202.7	2212.8	2214.7
5°	2200.8	2204.9	2194.7	2206.8	2208.7
7.5°	2188.7	2188.7	2182.7	2194.7	2196.9
10°	2166.8	2168.7	2166.8	2180.8	2182.7
12.5°	2138.9	2142.7	2144.9	2158.9	2160.8
15°	2104.9	2110.9	2114.8	2132.8	2136.9
17.5°	2066.9	2072.9	2082.8	2102.7	2106.8
20°	2020.9	2028.8	2040.8	2066.9	2072.9
22.5°	1971.0	1978.9	1998.9	2022.8	2032.9
25°	1913.0	1928.9	1948.8	1980.9	1986.9
27.5°	1854.9	1868.9	1894.9	1928.9	1937.0
30°	1787.0	1808.9	1841.0	1874.9	1882.9
32.5°	1721.0	1742.9	1781.0	1817.1	1827.0
35°	1653.1	1673.1	1713.1	1755.0	1767.0
37.5°	1575.1	1601.1	1645.2	1687.1	1699.1
40°	1493.2	1525.2	1575.1	1619.1	1633.1
42.5°	1415.2	1449.1	1499.2	1547.1	1563.0
45°	1333.3	1365.3	1425.3	1479.2	1491.3
47.5°	1249.2	1285.3	1349.2	1403.1	1423.1
50°	1165.4	1203.5	1271.4	1327.2	1339.3
52.5°	1081.4	1121.3	1193.3	1253.3	1259.3
55°	993.4	1037.5	1113.4	1171.4	1183.5
57.5°	913.5	951.5	1033.4	1093.4	1107.4
60°	825.6	867.5	955.4	1011.5	1029.3
62.5°	741.5	785.6	877.6	933.5	949.4
65°	653.6	703.7	793.6	859.5	875.4
67.5°	577.8	625.7	721.5	785.6	801.5
70°	489.6	543.8	645.7	711.7	727.6
72.5°	413.8	469.6	571.7	635.6	659.6
75°	331.9	395.7	497.8	565.7	581.6
77.5°	251.9	325.9	429.7	481.7	481.7
80°	179.9	257.9	353.8	377.9	381.7
82.5°	118.0	193.9	261.8	259.9	259.9
85°	67.9	126.0	155.8	152.0	152.0
87.5°	26.0	52.0	55.9	55.9	53.9
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)