

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: P843031

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843031  
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: 24CZ2-35HE-S-UNV-B35  
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

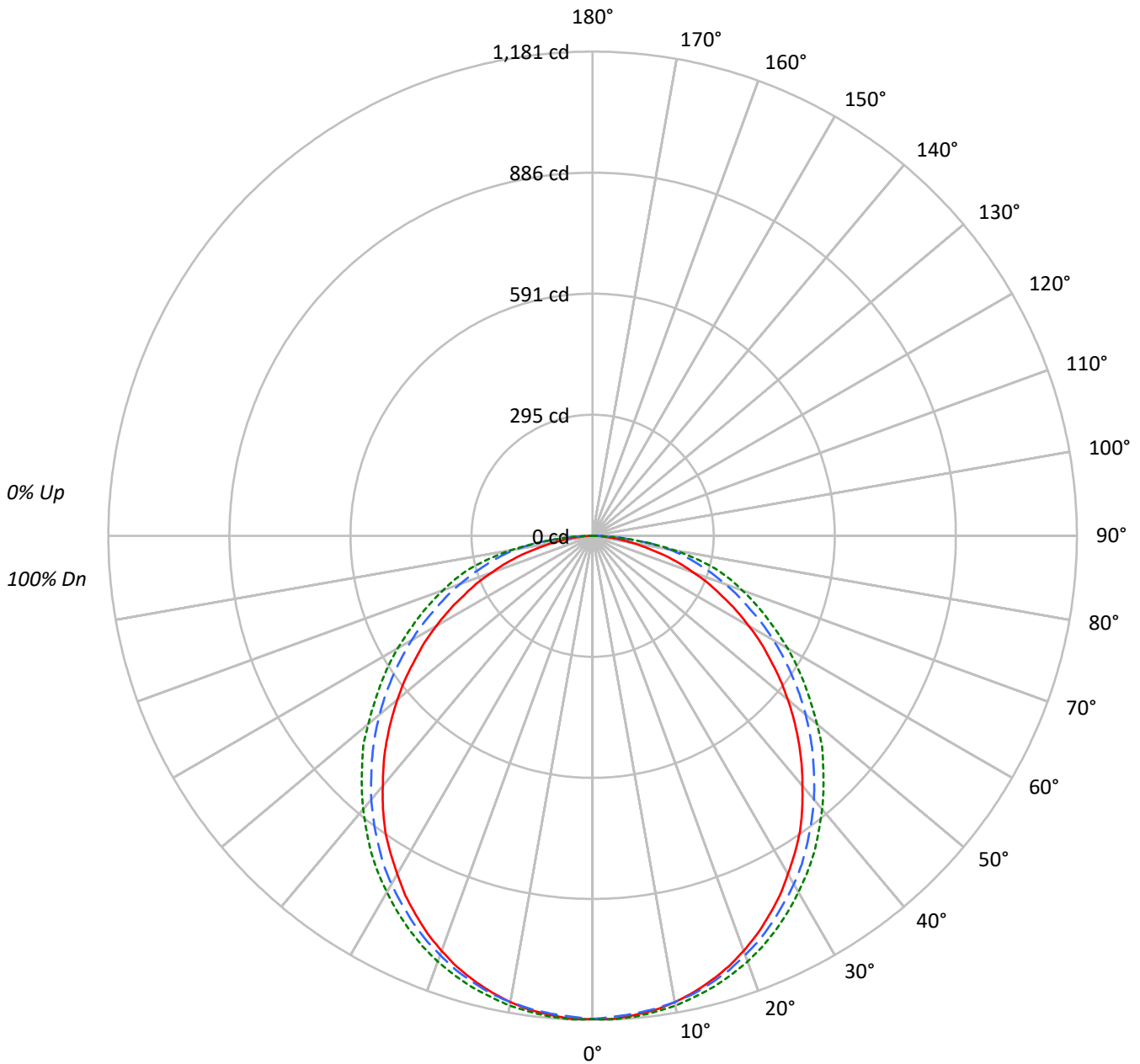
Lumens per Lamp: N/A  
Luminaire Lumens: 3355.0 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1664	1664	1664
5°	1662	1658	1668
10°	1656	1656	1668
15°	1640	1647	1665
20°	1618	1634	1660
25°	1588	1618	1650
30°	1553	1600	1636
35°	1518	1574	1623
40°	1467	1547	1604
45°	1419	1517	1587
50°	1364	1488	1568
55°	1303	1461	1552
60°	1242	1438	1549
65°	1164	1413	1559
70°	1077	1420	1601
75°	965	1447	1691
80°	779	1533	1654
85°	586	1346	1312



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.6	3.3
10°-20°	318.8	9.5
20°-30°	479.3	14.3
30°-40°	570.9	17.0
40°-50°	584.3	17.4
50°-60°	526.0	15.7
60°-70°	413.1	12.3
70°-80°	268.1	8.0
80°-90°	82.9	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°	909.7	27.1
0°-40°	1480.6	44.1
0°-60°	2590.9	77.2
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1173	1176	1170	1176	1178	111
15°	1122	1125	1128	1137	1139	316
25°	1020	1028	1039	1056	1059	470
35°	881	892	913	936	942	550
45°	711	728	760	789	795	548
55°	530	553	594	624	631	475
65°	348	375	423	458	467	347
75°	177	211	265	302	310	187
85°	36	67	83	81	81	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1178.7	1178.7	1178.7	1178.7	1178.7
2.5°	1179.7	1179.7	1174.3	1179.7	1180.7
5°	1173.3	1175.5	1170.1	1176.5	1177.5
7.5°	1166.9	1166.9	1163.7	1170.1	1171.2
10°	1155.2	1156.2	1155.2	1162.6	1163.7
12.5°	1140.3	1142.4	1143.5	1151.0	1152.0
15°	1122.2	1125.4	1127.5	1137.1	1139.3
17.5°	1101.9	1105.1	1110.4	1121.0	1123.2
20°	1077.4	1081.6	1088.0	1101.9	1105.1
22.5°	1050.8	1055.0	1065.7	1078.4	1083.8
25°	1019.9	1028.3	1039.0	1056.1	1059.3
27.5°	988.9	996.4	1010.2	1028.3	1032.7
30°	952.7	964.4	981.5	999.6	1003.8
32.5°	917.5	929.2	949.5	968.8	974.0
35°	881.3	892.0	913.3	935.6	942.1
37.5°	839.7	853.6	877.1	899.4	905.8
40°	796.1	813.1	839.7	863.2	870.7
42.5°	754.5	772.6	799.3	824.8	833.3
45°	710.8	727.9	759.9	788.6	795.0
47.5°	666.0	685.3	719.3	748.0	758.7
50°	621.3	641.6	677.8	707.6	714.0
52.5°	576.5	597.8	636.2	668.2	671.4
55°	529.6	553.1	593.6	624.5	630.9
57.5°	487.0	507.3	551.0	582.9	590.4
60°	440.1	462.5	509.4	539.3	548.8
62.5°	395.3	418.8	467.9	497.7	506.1
65°	348.5	375.2	423.1	458.3	466.7
67.5°	308.0	333.6	384.7	418.8	427.3
70°	261.0	289.9	344.2	379.4	387.9
72.5°	220.6	250.4	304.8	338.8	351.7
75°	176.9	211.0	265.4	301.6	310.1
77.5°	134.3	173.7	229.1	256.8	256.8
80°	95.9	137.5	188.6	201.5	203.5
82.5°	62.9	103.4	139.6	138.5	138.5
85°	36.2	67.2	83.1	81.0	81.0
87.5°	13.9	27.7	29.8	29.8	28.8
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)