

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: P843067

Luminaire Tested: **24CZ2-40HE-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843067  
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: 24CZ2-40HE-UNV-B35  
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

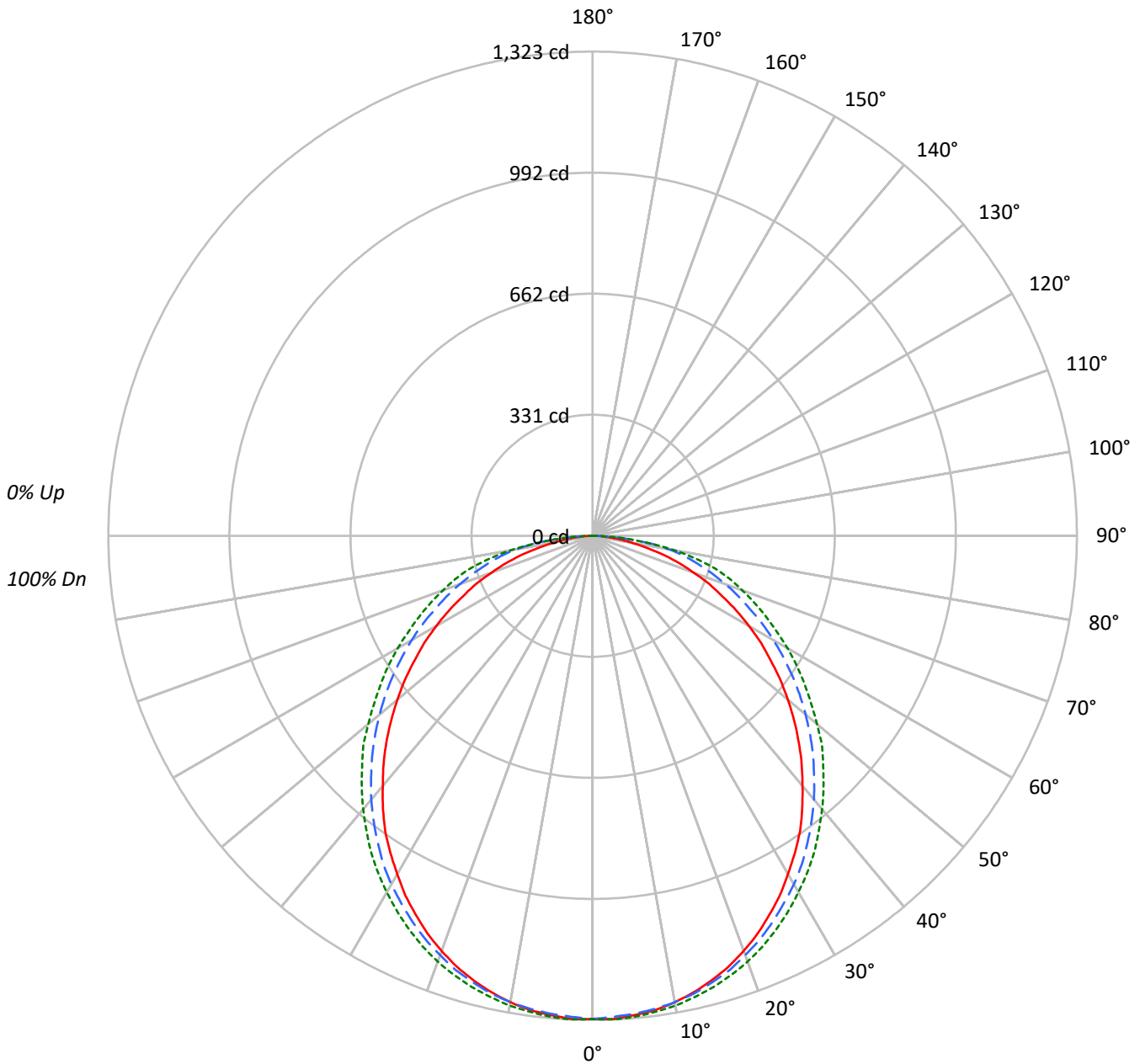
Lumens per Lamp: N/A  
Luminaire Lumens: 3759.0 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 29  
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	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°	1864	1864	1864
5°	1862	1857	1869
10°	1855	1855	1868
15°	1837	1846	1865
20°	1813	1831	1860
25°	1779	1813	1848
30°	1740	1792	1833
35°	1701	1763	1819
40°	1643	1733	1797
45°	1590	1699	1778
50°	1528	1667	1757
55°	1460	1637	1739
60°	1392	1611	1736
65°	1304	1583	1746
70°	1207	1592	1793
75°	1081	1622	1894
80°	874	1717	1853
85°	657	1508	1470



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.0	3.3
10°-20°	357.2	9.5
20°-30°	537.0	14.3
30°-40°	639.6	17.0
40°-50°	654.6	17.4
50°-60°	589.4	15.7
60°-70°	462.8	12.3
70°-80°	300.4	8.0
80°-90°	92.9	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°	1019.2	27.1
0°-40°	1658.8	44.1
0°-60°	2902.9	77.2
0°-90°	3759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1315	1317	1311	1318	1319	125
15°	1257	1261	1263	1274	1276	355
25°	1143	1152	1164	1183	1187	526
35°	987	999	1023	1048	1056	616
45°	796	816	851	884	891	614
55°	593	620	665	700	707	532
65°	390	420	474	513	523	389
75°	198	236	297	338	347	210
85°	41	75	93	91	91	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1320.6	1320.6	1320.6	1320.6	1320.6
2.5°	1321.8	1321.8	1315.7	1321.8	1322.9
5°	1314.6	1317.0	1311.0	1318.2	1319.3
7.5°	1307.4	1307.4	1303.8	1311.0	1312.3
10°	1294.3	1295.4	1294.3	1302.6	1303.8
12.5°	1277.6	1279.9	1281.2	1289.5	1290.7
15°	1257.3	1260.9	1263.2	1274.0	1276.5
17.5°	1234.6	1238.2	1244.1	1256.0	1258.5
20°	1207.1	1211.9	1219.1	1234.6	1238.2
22.5°	1177.3	1182.1	1194.0	1208.3	1214.3
25°	1142.7	1152.2	1164.1	1183.2	1186.8
27.5°	1108.0	1116.3	1131.9	1152.2	1157.1
30°	1067.4	1080.5	1099.7	1119.9	1124.7
32.5°	1028.0	1041.1	1063.8	1085.4	1091.3
35°	987.4	999.4	1023.3	1048.3	1055.5
37.5°	940.8	956.4	982.7	1007.7	1014.9
40°	891.9	911.1	940.8	967.2	975.5
42.5°	845.3	865.6	895.5	924.1	933.6
45°	796.4	815.5	851.4	883.6	890.8
47.5°	746.2	767.8	805.9	838.1	850.1
50°	696.1	718.9	759.4	792.8	800.0
52.5°	645.9	669.8	712.8	748.6	752.2
55°	593.4	619.7	665.1	699.7	706.9
57.5°	545.7	568.4	617.3	653.1	661.5
60°	493.1	518.2	570.7	604.2	614.9
62.5°	442.9	469.3	524.2	557.6	567.1
65°	390.4	420.4	474.0	513.4	522.9
67.5°	345.1	373.7	431.0	469.3	478.8
70°	292.5	324.8	385.7	425.1	434.6
72.5°	247.1	280.5	341.5	379.6	394.0
75°	198.2	236.4	297.4	337.9	347.4
77.5°	150.5	194.6	256.6	287.7	287.7
80°	107.5	154.1	211.3	225.7	228.0
82.5°	70.5	115.8	156.4	155.2	155.2
85°	40.6	75.2	93.1	90.8	90.8
87.5°	15.5	31.1	33.4	33.4	32.2
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)