

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: P843017

Luminaire Tested: **24CZ2-35-S-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843017
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: 24CZ2-35-S-UNV-B40
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

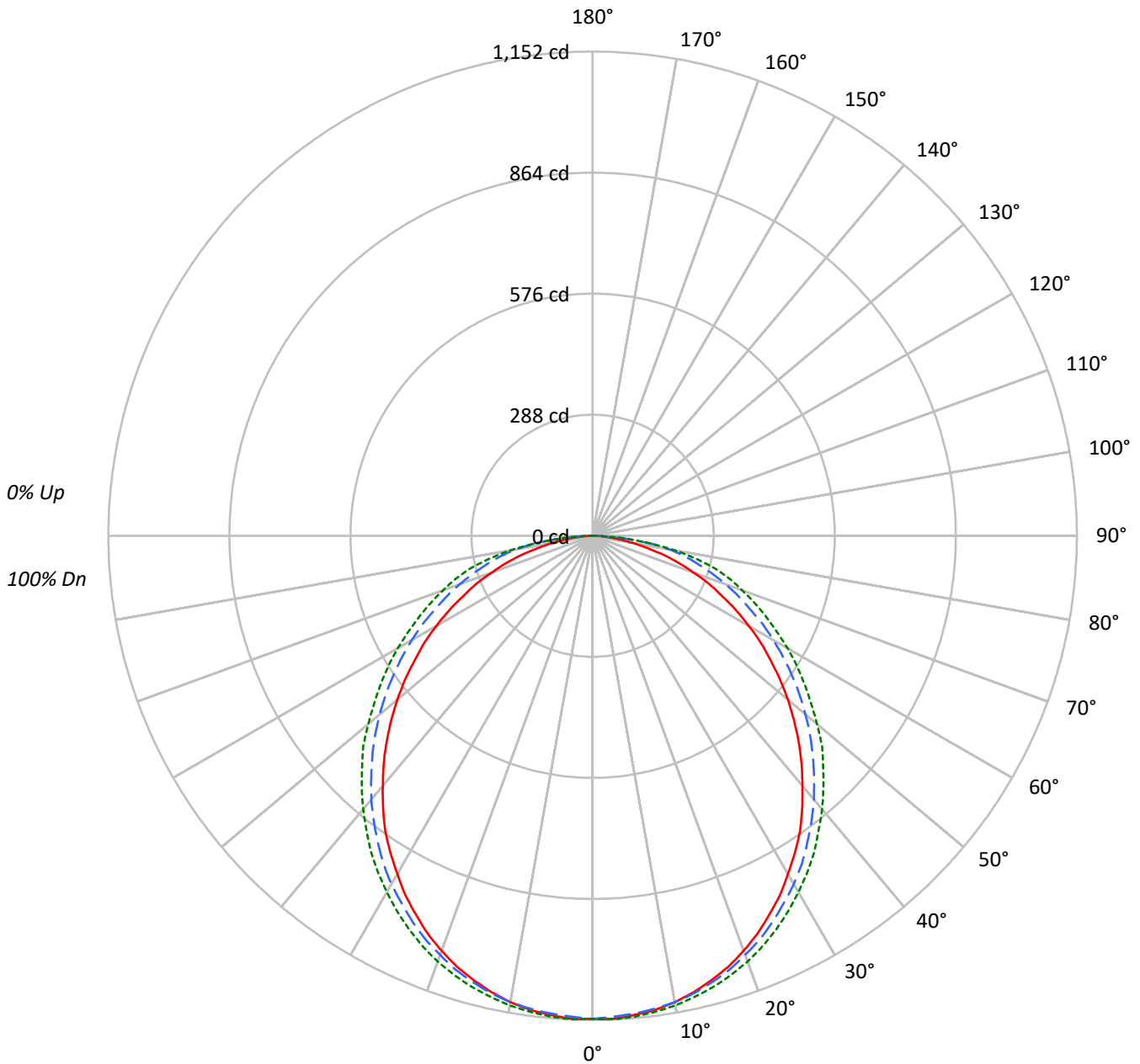
Lumens per Lamp: N/A
Luminaire Lumens: 3272.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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°	1622	1622	1622
5°	1621	1617	1627
10°	1615	1615	1626
15°	1599	1607	1623
20°	1578	1594	1619
25°	1549	1578	1609
30°	1514	1560	1595
35°	1481	1535	1583
40°	1430	1509	1564
45°	1384	1479	1548
50°	1330	1451	1529
55°	1271	1424	1514
60°	1212	1402	1511
65°	1135	1378	1520
70°	1051	1385	1561
75°	941	1411	1649
80°	760	1495	1613
85°	572	1312	1279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.3
10°-20°	310.9	9.5
20°-30°	467.4	14.3
30°-40°	556.8	17.0
40°-50°	569.8	17.4
50°-60°	513.0	15.7
60°-70°	402.9	12.3
70°-80°	261.5	8.0
80°-90°	80.9	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°	887.2	27.1
0°-40°	1443.9	44.1
0°-60°	2526.8	77.2
0°-90°	3272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1144	1146	1141	1147	1148	109
15°	1094	1098	1100	1109	1111	309
25°	995	1003	1013	1030	1033	458
35°	860	870	891	912	919	536
45°	693	710	741	769	775	534
55°	516	540	579	609	615	463
65°	340	366	413	447	455	338
75°	173	206	259	294	302	183
85°	35	66	81	79	79	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.5	1149.5	1149.5	1149.5	<i>1149.5</i>
2.5°	<i>1150.5</i>	<i>1150.5</i>	<i>1145.3</i>	<i>1150.5</i>	<i>1151.5</i>
5°	1144.3	1146.4	1141.1	1147.4	<i>1148.4</i>
7.5°	1138.0	1138.0	1134.9	1141.1	<i>1142.3</i>
10°	1126.6	1127.6	1126.6	1133.9	<i>1134.9</i>
12.5°	1112.1	1114.1	1115.2	1122.5	<i>1123.5</i>
15°	1094.4	1097.6	1099.6	1109.0	<i>1111.1</i>
17.5°	1074.6	1077.8	1082.9	1093.3	<i>1095.4</i>
20°	1050.7	1054.9	1061.1	1074.6	<i>1077.8</i>
22.5°	1024.8	1028.9	1039.3	1051.7	<i>1057.0</i>
25°	994.6	1002.9	1013.3	1029.9	<i>1033.1</i>
27.5°	964.5	971.7	985.2	1002.9	<i>1007.2</i>
30°	929.1	940.5	957.2	974.8	<i>979.0</i>
32.5°	894.8	906.2	926.0	944.8	<i>949.9</i>
35°	859.5	869.9	890.7	912.5	<i>918.7</i>
37.5°	818.9	832.5	855.4	877.2	<i>883.4</i>
40°	776.4	793.0	818.9	841.9	<i>849.1</i>
42.5°	735.8	753.5	779.5	804.4	<i>812.7</i>
45°	693.2	709.9	741.1	769.1	<i>775.4</i>
47.5°	649.5	668.3	701.5	729.5	<i>739.9</i>
50°	605.9	625.7	661.0	690.1	<i>696.4</i>
52.5°	562.2	583.0	620.5	651.6	<i>654.8</i>
55°	516.5	539.5	578.9	609.1	<i>615.3</i>
57.5°	475.0	494.7	537.3	568.5	<i>575.8</i>
60°	429.3	451.0	496.8	525.9	<i>535.2</i>
62.5°	385.6	408.5	456.3	485.4	<i>493.6</i>
65°	339.8	365.9	412.6	446.9	<i>455.2</i>
67.5°	300.4	325.3	375.2	408.5	<i>416.7</i>
70°	254.6	282.7	335.7	370.0	<i>378.3</i>
72.5°	215.1	244.2	297.3	330.5	<i>343.0</i>
75°	172.6	205.7	258.8	294.1	<i>302.4</i>
77.5°	131.0	169.4	223.4	250.4	<i>250.4</i>
80°	93.5	134.1	183.9	196.5	<i>198.5</i>
82.5°	61.4	100.8	136.1	135.1	<i>135.1</i>
85°	35.3	65.5	81.0	79.0	<i>79.0</i>
87.5°	13.5	27.0	29.1	29.1	<i>28.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)