

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: P843063

Luminaire Tested: **24CZ2-40HE-S-UNV-B50**

Issue Date: 1/5/2024

Test Information

Test Method: LM-79-08
Report Number: P843063
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-S-UNV-B50
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

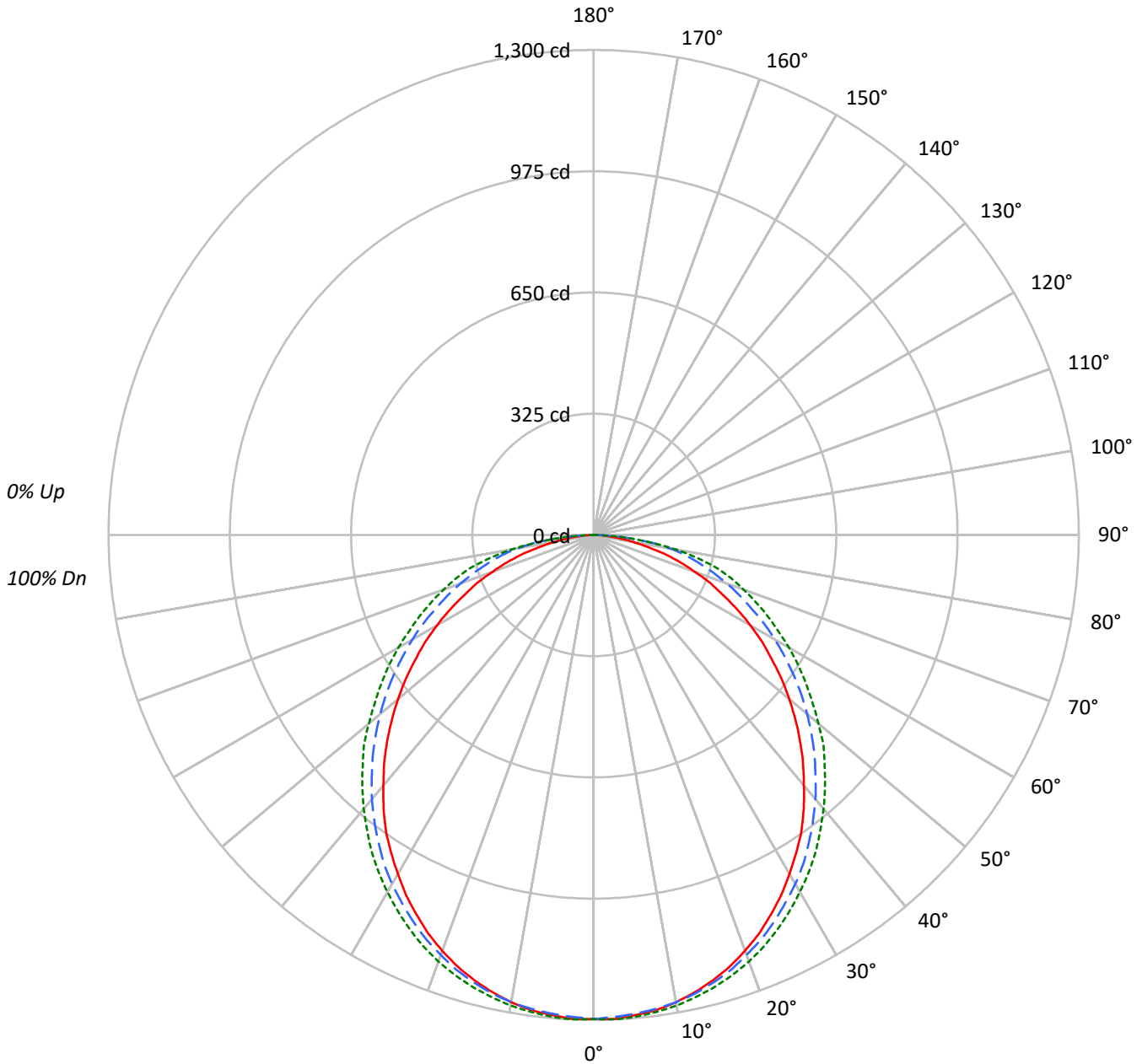
Lumens per Lamp: N/A
Luminaire Lumens: 3694.0 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{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°	1832	1832	1832
5°	1830	1825	1837
10°	1823	1823	1836
15°	1805	1814	1833
20°	1782	1799	1828
25°	1749	1781	1816
30°	1710	1761	1801
35°	1672	1733	1787
40°	1615	1703	1766
45°	1562	1670	1747
50°	1502	1639	1726
55°	1435	1608	1709
60°	1368	1583	1705
65°	1281	1556	1716
70°	1186	1564	1762
75°	1062	1593	1862
80°	858	1688	1821
85°	646	1482	1444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.3
10°-20°	351.0	9.5
20°-30°	527.7	14.3
30°-40°	628.6	17.0
40°-50°	643.3	17.4
50°-60°	579.2	15.7
60°-70°	454.9	12.3
70°-80°	295.2	8.0
80°-90°	91.3	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°	1001.6	27.1
0°-40°	1630.2	44.1
0°-60°	2852.7	77.2
0°-90°	3694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1292	1294	1288	1295	1296	123
15°	1236	1239	1241	1252	1254	348
25°	1123	1132	1144	1163	1166	517
35°	970	982	1006	1030	1037	605
45°	783	801	837	868	875	603
55°	583	609	654	688	695	523
65°	384	413	466	505	514	382
75°	195	232	292	332	341	206
85°	40	74	92	89	89	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1298.9	1298.9	1293.0	1298.9	1300.0
5°	1291.8	1294.3	1288.3	1295.4	1296.5
7.5°	1284.8	1284.8	1281.2	1288.3	1289.6
10°	1271.9	1273.0	1271.9	1280.1	1281.2
12.5°	1255.5	1257.8	1259.1	1267.3	1268.4
15°	1235.6	1239.1	1241.4	1252.0	1254.4
17.5°	1213.2	1216.8	1222.6	1234.3	1236.7
20°	1186.2	1190.9	1198.0	1213.2	1216.8
22.5°	1157.0	1161.6	1173.4	1187.4	1193.3
25°	1122.9	1132.2	1144.0	1162.8	1166.3
27.5°	1088.8	1097.0	1112.3	1132.2	1137.0
30°	1049.0	1061.8	1080.6	1100.6	1105.2
32.5°	1010.2	1023.1	1045.4	1066.6	1072.4
35°	970.4	982.1	1005.6	1030.2	1037.2
37.5°	924.6	939.8	965.7	990.3	997.4
40°	876.5	895.3	924.6	950.4	958.6
42.5°	830.7	850.6	880.0	908.2	917.5
45°	782.6	801.4	836.6	868.3	875.4
47.5°	733.3	754.5	792.0	823.6	835.4
50°	684.1	706.4	746.3	779.1	786.2
52.5°	634.8	658.2	700.5	735.7	739.2
55°	583.2	609.0	653.6	687.6	694.7
57.5°	536.2	558.6	606.6	641.8	650.0
60°	484.6	509.2	560.8	593.8	604.2
62.5°	435.3	461.2	515.2	548.0	557.3
65°	383.7	413.1	465.8	504.6	513.9
67.5°	339.1	367.3	423.5	461.2	470.5
70°	287.4	319.2	379.0	417.8	427.1
72.5°	242.9	275.7	335.6	373.1	387.2
75°	194.8	232.3	292.2	332.1	341.4
77.5°	147.9	191.3	252.2	282.7	282.7
80°	105.6	151.4	207.7	221.8	224.1
82.5°	69.3	113.8	153.7	152.5	152.5
85°	39.9	73.9	91.5	89.2	89.2
87.5°	15.3	30.5	32.8	32.8	31.7
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)