

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: P843059

Luminaire Tested: **24CZ2-40HE-RDP-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40HE-RDP-UNV-B40
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

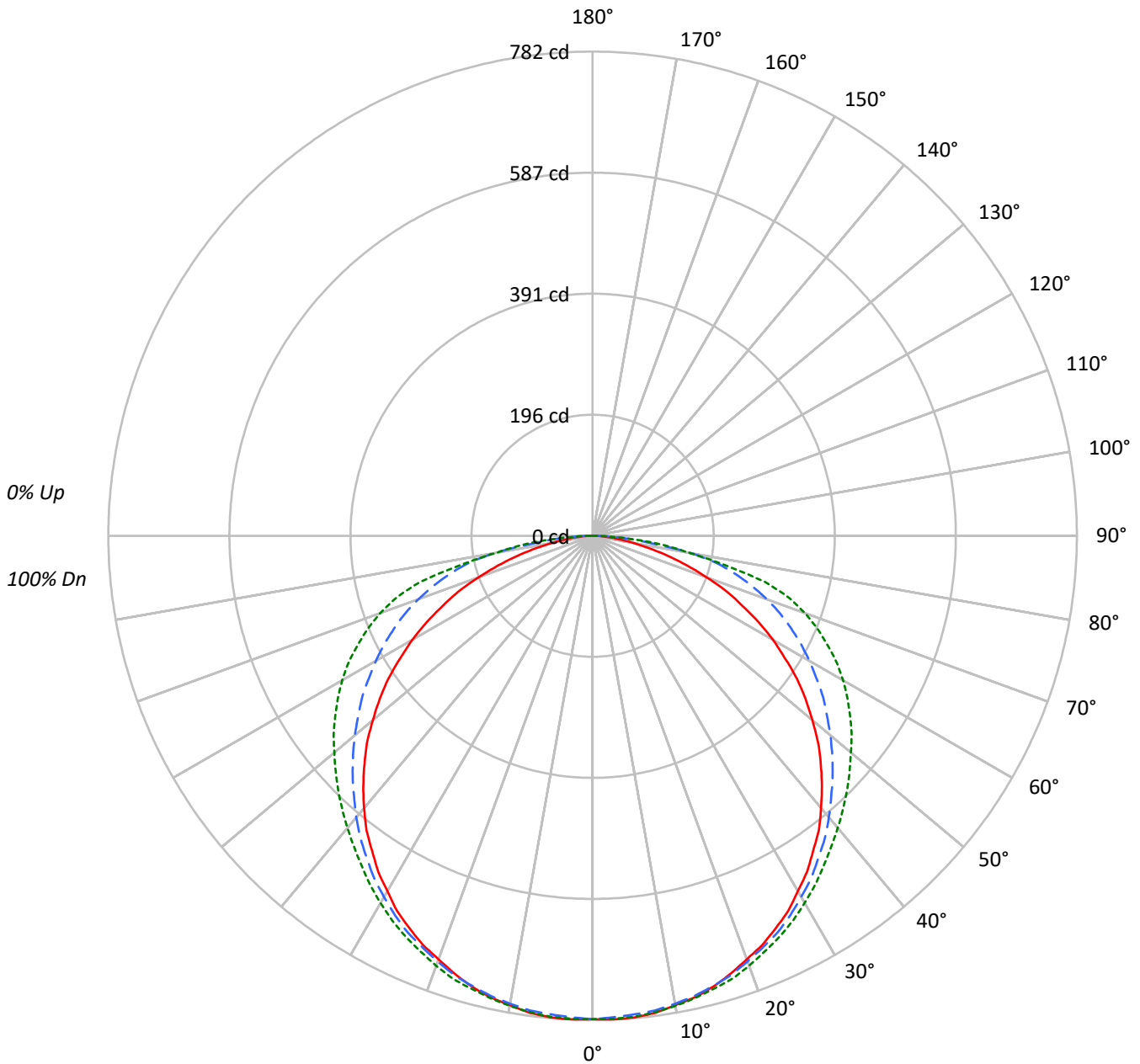
Lumens per Lamp: N/A
Luminaire Lumens: 2483.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1102	1102	1102
5°	1106	1099	1105
10°	1103	1100	1105
15°	1101	1099	1107
20°	1093	1099	1110
25°	1089	1101	1112
30°	1080	1098	1116
35°	1070	1095	1120
40°	1058	1094	1135
45°	1040	1094	1160
50°	1017	1100	1195
55°	991	1118	1249
60°	949	1140	1318
65°	888	1180	1399
70°	808	1235	1505
75°	685	1303	1572
80°	540	1311	1271
85°	400	998	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.0
10°-20°	213.2	8.6
20°-30°	326.0	13.1
30°-40°	398.5	16.0
40°-50°	424.7	17.1
50°-60°	406.1	16.4
60°-70°	344.0	13.9
70°-80°	231.2	9.3
80°-90°	65.2	2.6
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°	613.2	24.7
0°-40°	1011.7	40.7
0°-60°	1842.6	74.2
0°-90°	2483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	781	780	776	780	780	74
15°	754	754	752	759	757	213
25°	700	702	707	713	714	322
35°	621	626	636	648	650	389
45°	521	530	548	571	581	402
55°	403	417	454	490	507	359
65°	266	293	353	400	419	264
75°	126	171	239	280	288	135
85°	25	50	62	66	69	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.8	780.8	780.8	780.8	780.8
2.5°	782.0	782.0	778.3	780.8	780.8
5°	780.8	779.7	775.9	779.7	779.7
7.5°	777.1	775.9	773.4	777.1	775.9
10°	769.7	769.7	767.3	771.0	771.0
12.5°	763.6	762.4	761.1	766.0	764.8
15°	753.8	753.8	752.5	758.7	757.4
17.5°	741.5	742.7	743.9	748.8	750.1
20°	727.8	730.3	731.5	739.0	739.0
22.5°	715.5	716.8	719.2	726.6	726.6
25°	699.6	702.0	706.9	713.1	714.3
27.5°	683.6	684.8	691.0	699.6	700.8
30°	662.6	666.3	673.6	683.6	684.8
32.5°	644.1	647.8	656.4	666.3	668.7
35°	620.8	625.7	635.5	647.8	650.3
37.5°	599.8	603.5	615.9	629.4	633.1
40°	574.0	581.2	593.6	609.6	615.9
42.5°	548.1	555.4	570.3	591.2	598.6
45°	521.0	529.6	548.1	571.4	581.2
47.5°	493.9	503.7	524.7	551.7	562.8
50°	463.0	475.4	501.2	532.1	544.4
52.5°	433.5	448.3	476.7	511.2	527.2
55°	402.7	417.4	454.4	490.2	507.4
57.5°	368.3	387.9	428.6	469.3	487.7
60°	336.2	354.6	403.9	448.3	466.8
62.5°	301.8	326.4	379.3	426.1	444.6
65°	266.0	293.1	353.4	400.2	418.8
67.5°	234.0	263.6	327.6	374.4	392.9
70°	195.9	232.7	299.2	346.0	364.6
72.5°	160.1	200.8	269.7	315.3	332.5
75°	125.6	171.2	238.9	279.6	288.2
77.5°	93.6	141.7	206.9	224.1	218.0
80°	66.5	113.3	161.3	152.7	156.4
82.5°	43.1	86.3	99.8	113.3	117.0
85°	24.7	50.5	61.6	66.5	68.9
87.5°	11.1	18.4	24.7	24.7	23.5
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)