

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: P732195

Luminaire Tested: **24CZ2-40-HRP-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P295011)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-HRP-B2750-W2D-5000K
Description: 2X4 4000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Summary

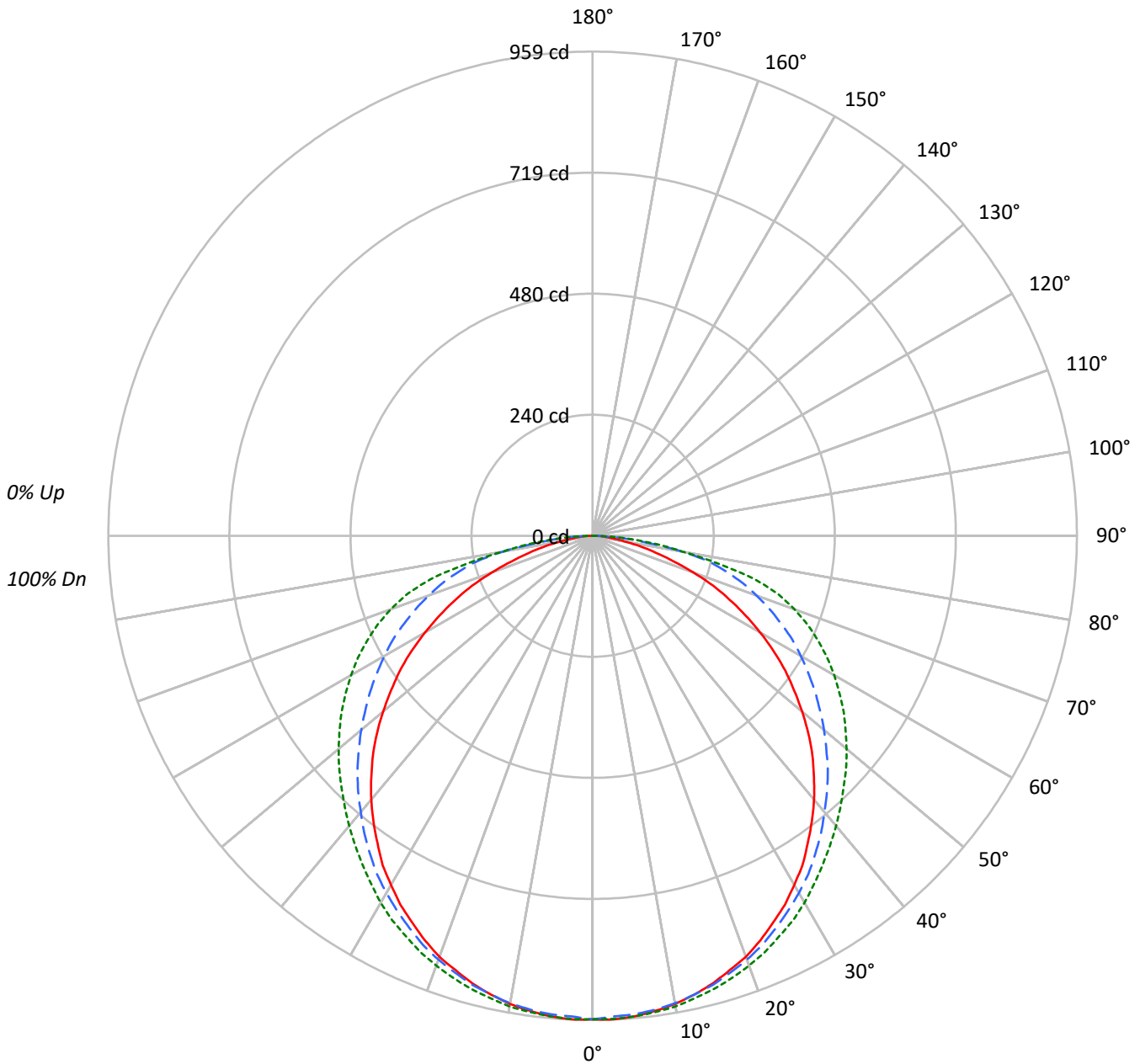
Lumens per Lamp: N/A
Luminaire Lumens: 2952.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 31
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					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	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82								
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67								
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56								
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48								
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41								
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36								
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31								
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28								
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25								
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1352	1352	1352
5°	1354	1348	1354
10°	1350	1348	1357
15°	1342	1345	1358
20°	1333	1342	1361
25°	1316	1336	1363
30°	1301	1331	1367
35°	1280	1325	1369
40°	1257	1316	1382
45°	1228	1315	1404
50°	1189	1313	1441
55°	1146	1323	1493
60°	1082	1343	1559
65°	999	1375	1646
70°	872	1423	1755
75°	708	1496	1813
80°	522	1467	1467
85°	402	1082	1219



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.1
10°-20°	260.5	8.8
20°-30°	396.6	13.4
30°-40°	481.6	16.3
40°-50°	508.8	17.2
50°-60°	480.1	16.3
60°-70°	399.2	13.5
70°-80°	262.7	8.9
80°-90°	71.6	2.4
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°	747.9	25.3
0°-40°	1229.5	41.7
0°-60°	2218.5	75.2
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	955	955	952	955	955	91
15°	918	920	921	929	929	259
25°	845	850	858	872	875	390
35°	743	751	769	788	795	465
45°	616	628	659	691	703	474
55°	466	486	538	588	607	415
65°	299	334	412	472	493	296
75°	130	189	274	325	332	140
85°	25	54	67	74	75	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.8	957.8	957.8	957.8	957.8
2.5°	959.0	957.8	952.8	957.8	957.8
5°	955.4	955.4	951.5	955.4	955.4
7.5°	949.1	949.1	946.7	951.5	951.5
10°	941.8	941.8	940.4	946.7	946.7
12.5°	930.6	931.8	930.6	937.9	937.9
15°	918.2	919.5	920.7	929.4	929.4
17.5°	902.2	904.6	907.1	917.0	918.2
20°	887.4	888.6	893.5	904.6	905.9
22.5°	867.5	871.3	877.4	888.6	892.2
25°	845.3	850.2	857.7	872.5	875.0
27.5°	824.2	828.1	837.8	853.9	858.9
30°	798.4	804.5	816.9	832.9	839.1
32.5°	773.6	779.8	794.6	812.0	816.9
35°	742.8	751.3	768.8	788.5	794.6
37.5°	713.1	721.7	742.8	764.9	772.4
40°	682.1	692.0	714.3	740.3	750.1
42.5°	648.8	662.4	687.1	715.6	726.7
45°	615.5	627.8	658.7	690.8	703.2
47.5°	579.5	594.4	627.8	666.1	680.9
50°	541.3	559.8	598.2	640.2	656.3
52.5°	503.0	523.9	567.2	614.2	631.5
55°	465.8	485.7	537.5	588.3	606.8
57.5°	425.2	449.8	506.6	561.1	579.5
60°	383.2	410.4	475.8	532.6	552.3
62.5°	341.1	372.0	446.1	503.0	523.9
65°	299.1	333.6	411.6	472.1	493.0
67.5°	258.3	296.7	379.3	440.0	460.9
70°	211.4	259.5	344.8	404.1	425.2
72.5°	168.1	223.8	311.5	367.1	385.6
75°	129.8	189.1	274.3	325.1	332.4
77.5°	95.2	154.5	236.0	253.4	254.6
80°	64.2	123.6	180.5	177.9	180.5
82.5°	42.0	92.6	113.7	127.3	128.5
85°	24.8	54.4	66.8	74.1	75.3
87.5°	12.4	18.5	23.5	24.8	27.2
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)