

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: P880828

Luminaire Tested: **24CZ2-35VHE-HRP-B2750-W2D-3000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474369)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35VHE-HRP-B2750-W2D-3000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

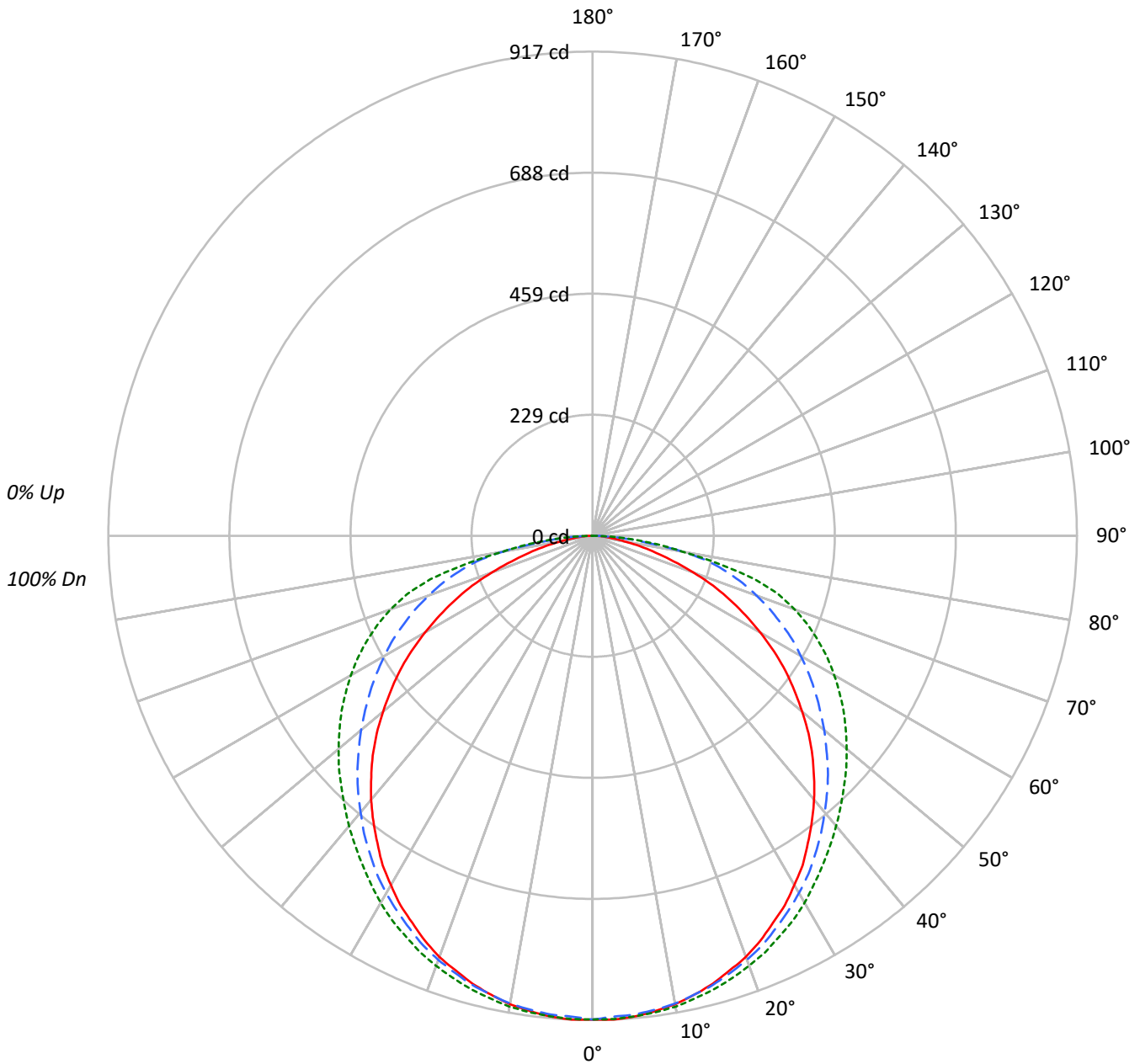
Lumens per Lamp: N/A
Luminaire Lumens: 2824.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): 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	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°	1293	1293	1293
5°	1295	1290	1295
10°	1291	1289	1298
15°	1283	1287	1299
20°	1275	1284	1302
25°	1259	1278	1303
30°	1245	1273	1308
35°	1224	1267	1310
40°	1202	1259	1322
45°	1175	1258	1343
50°	1137	1257	1378
55°	1097	1265	1428
60°	1035	1285	1492
65°	955	1315	1576
70°	834	1361	1678
75°	677	1431	1734
80°	500	1404	1404
85°	384	1035	1168



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.1
10°-20°	249.2	8.8
20°-30°	379.5	13.4
30°-40°	460.7	16.3
40°-50°	486.8	17.2
50°-60°	459.3	16.3
60°-70°	381.9	13.5
70°-80°	251.3	8.9
80°-90°	68.5	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°	715.5	25.3
0°-40°	1176.2	41.7
0°-60°	2122.3	75.2
0°-90°	2824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	914	914	910	914	914	87
15°	878	880	881	889	889	248
25°	809	813	820	835	837	373
35°	711	719	735	754	760	445
45°	589	601	630	661	673	453
55°	446	465	514	563	580	397
65°	286	319	394	452	472	283
75°	124	181	262	311	318	134
85°	24	52	64	71	72	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.2	916.2	916.2	916.2	916.2
2.5°	917.4	916.2	911.5	916.2	916.2
5°	913.9	913.9	910.3	913.9	913.9
7.5°	908.0	908.0	905.5	910.3	910.3
10°	900.9	900.9	899.7	905.5	905.5
12.5°	890.3	891.3	890.3	897.3	897.3
15°	878.4	879.5	880.8	889.1	889.1
17.5°	863.1	865.4	867.8	877.2	878.4
20°	848.9	849.9	854.7	865.4	866.6
22.5°	830.0	833.5	839.5	849.9	853.7
25°	808.6	813.4	820.5	834.7	837.0
27.5°	788.5	792.1	801.6	817.0	821.7
30°	763.7	769.7	781.4	796.8	802.7
32.5°	740.1	746.0	760.2	776.6	781.4
35°	710.6	718.9	735.3	754.3	760.2
37.5°	682.1	690.4	710.6	731.8	739.0
40°	652.5	662.0	683.4	708.1	717.6
42.5°	620.6	633.7	657.3	684.5	695.2
45°	588.7	600.6	630.1	660.8	672.7
47.5°	554.5	568.8	600.6	637.3	651.5
50°	517.8	535.6	572.3	612.3	627.8
52.5°	481.3	501.3	542.7	587.5	604.2
55°	445.7	464.6	514.2	562.8	580.5
57.5°	406.7	430.4	484.7	536.7	554.5
60°	366.5	392.6	455.2	509.5	528.4
62.5°	326.3	355.9	426.7	481.3	501.3
65°	286.1	319.3	393.7	451.7	471.8
67.5°	247.0	283.7	363.0	420.9	440.9
70°	202.2	248.3	329.8	386.6	406.7
72.5°	160.8	214.1	297.8	351.2	368.9
75°	124.1	181.0	262.4	310.9	318.0
77.5°	91.0	147.8	225.8	242.3	243.5
80°	61.5	118.2	172.7	170.2	172.7
82.5°	40.2	88.7	108.7	121.8	122.9
85°	23.7	52.1	63.9	71.0	72.1
87.5°	11.8	17.7	22.5	23.7	26.0
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)