

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: P880702

Luminaire Tested: **22CZ2-34VHE-HRP-B2750-W2D-2700K**

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: P880702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P475114)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-HRP-B2750-W2D-2700K
Description: 2X2 3400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND HRP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

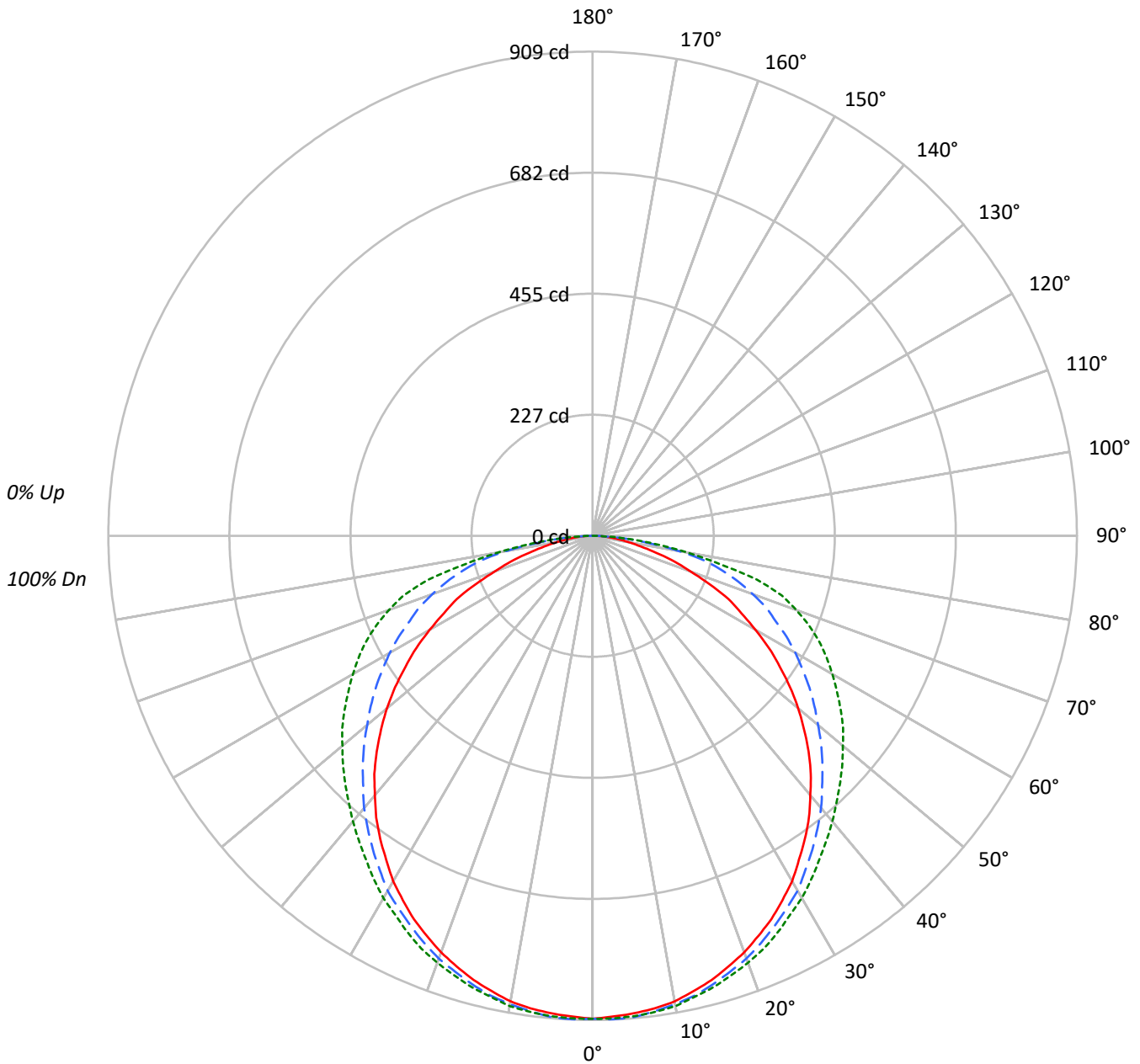
Lumens per Lamp: N/A
Luminaire Lumens: 2754.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.92' x L: 1.98' x H: 0')
CIE Type: Direct

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	87	84	82																			
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	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	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	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	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2573	2573	2573
5°	2563	2583	2578
10°	2558	2573	2583
15°	2536	2562	2577
20°	2513	2550	2575
25°	2486	2529	2573
30°	2453	2522	2573
35°	2407	2491	2570
40°	2355	2471	2593
45°	2301	2447	2635
50°	2224	2439	2707
55°	2122	2458	2810
60°	2002	2494	2948
65°	1890	2543	3150
70°	1614	2652	3372
75°	1353	2763	3505
80°	1110	2668	2923
85°	960	1976	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	3.1
10°-20°	245.9	8.9
20°-30°	372.6	13.5
30°-40°	449.9	16.3
40°-50°	472.8	17.2
50°-60°	444.8	16.2
60°-70°	370.9	13.5
70°-80°	245.8	8.9
80°-90°	65.5	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°	704.4	25.6
0°-40°	1154.3	41.9
0°-60°	2071.9	75.2
0°-90°	2754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	900	902	907	907	905	86
15°	863	867	872	876	877	243
25°	794	799	808	818	822	366
35°	695	702	719	735	742	435
45°	573	582	610	641	657	442
55°	429	448	497	547	568	384
65°	282	306	379	441	469	274
75°	123	172	252	304	320	134
85°	30	45	61	66	66	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	906.8	906.8	906.8	906.8	906.8
2.5°	903.4	905.1	908.6	908.6	906.8
5°	899.9	901.6	906.8	906.8	905.1
7.5°	894.7	896.6	899.9	903.4	901.6
10°	887.7	889.5	893.0	896.6	896.6
12.5°	875.6	877.3	884.3	886.2	886.2
15°	863.4	866.9	872.1	875.6	877.3
17.5°	847.8	851.3	858.2	865.2	865.2
20°	832.2	835.7	844.4	851.3	852.9
22.5°	813.1	818.3	827.0	835.7	839.1
25°	794.0	799.2	807.9	818.3	821.8
27.5°	771.3	776.5	788.8	801.0	802.5
30°	748.7	753.9	769.6	780.0	785.3
32.5°	721.0	727.9	743.5	759.1	764.3
35°	694.9	701.9	719.2	735.0	741.8
37.5°	667.2	673.9	693.2	712.5	721.0
40°	635.7	644.6	667.2	688.0	700.1
42.5°	606.4	615.1	637.6	665.4	677.6
45°	573.3	581.9	609.9	640.9	656.7
47.5°	538.5	549.0	581.9	620.3	635.7
50°	503.8	516.0	552.4	595.8	613.2
52.5°	467.2	483.0	524.7	571.7	592.4
55°	429.0	448.3	496.9	547.2	568.1
57.5°	392.6	410.1	467.2	521.2	543.8
60°	352.7	375.2	439.4	495.0	519.5
62.5°	314.5	338.8	410.1	469.1	495.0
65°	281.5	305.6	378.7	441.2	469.1
67.5°	237.9	271.1	352.7	411.7	439.4
70°	194.6	239.7	319.7	380.4	406.5
72.5°	161.6	205.0	286.7	347.5	371.8
75°	123.4	172.0	252.0	304.1	319.7
77.5°	92.2	142.5	215.4	241.6	243.2
80°	67.9	109.3	163.3	172.0	178.9
82.5°	47.0	76.4	106.0	116.3	119.9
85°	29.5	45.1	60.7	66.0	66.0
87.5°	15.6	17.4	20.8	20.8	20.8
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)