

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: P390272

Luminaire Tested: **22CZ2-34VHE-HRP-UNV-L950-CD1-U**

Issue Date: 2/28/2020

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: P390272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-34VHE-HRP-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2769.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

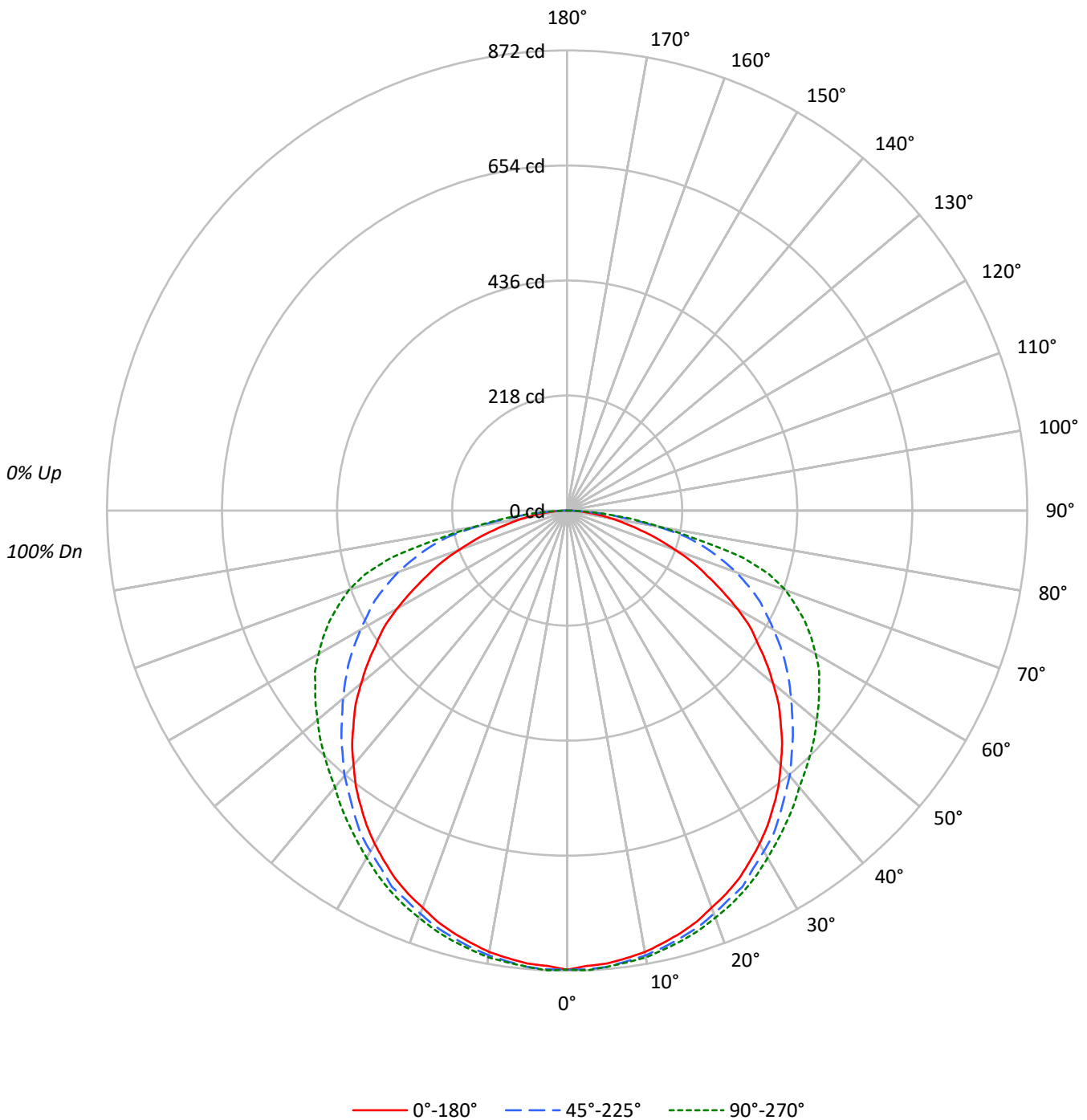
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	92	89		92	89	86		88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		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°	2341	2341	2341
5°	2328	2344	2344
10°	2321	2338	2349
15°	2310	2333	2350
20°	2293	2328	2351
25°	2286	2335	2359
30°	2266	2317	2361
35°	2242	2309	2376
40°	2211	2304	2405
45°	2178	2302	2481
50°	2132	2320	2584
55°	2074	2370	2733
60°	2006	2434	2927
65°	1868	2555	3165
70°	1715	2677	3462
75°	1503	2817	3580
80°	1294	2684	2810
85°	1133	1951	2140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	3.0
10°-20°	236.2	8.5
20°-30°	360.4	13.0
30°-40°	440.1	15.9
40°-50°	470.6	17.0
50°-60°	454.2	16.4
60°-70°	391.0	14.1
70°-80°	264.5	9.6
80°-90°	69.8	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°	679.0	24.5
0°-40°	1119.1	40.4
0°-60°	2043.9	73.8
0°-90°	2769.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2769.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	862	864	868	868	868	82
15°	829	831	837	841	843	234
25°	770	774	786	790	794	354
35°	682	688	703	717	723	427
45°	572	583	605	636	652	442
55°	442	456	505	556	583	396
65°	293	322	401	464	497	292
75°	145	192	271	326	344	155
85°	37	51	63	65	69	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	869.9	869.9	869.9	869.9	869.9
2.5°	863.7	865.8	869.9	869.9	871.9
5°	861.7	863.7	867.8	867.8	867.8
7.5°	855.6	857.6	861.7	863.7	863.7
10°	849.5	851.5	855.6	857.6	859.7
12.5°	839.3	841.3	847.4	851.5	851.5
15°	829.1	831.1	837.3	841.3	843.4
17.5°	816.9	821.0	827.1	831.1	833.2
20°	800.6	804.7	812.8	818.9	821.0
22.5°	786.3	790.4	798.6	804.7	808.7
25°	770.0	774.1	786.3	790.4	794.5
27.5°	749.7	753.7	763.9	772.1	778.2
30°	729.3	733.4	745.6	755.8	759.8
32.5°	706.9	713.0	727.3	735.4	741.5
35°	682.4	688.5	702.8	717.1	723.2
37.5°	658.0	664.1	678.4	696.7	704.8
40°	629.5	637.6	656.0	680.4	684.5
42.5°	603.0	613.2	629.5	658.0	668.2
45°	572.4	582.6	605.0	635.6	651.9
47.5°	543.9	554.1	578.5	615.2	635.6
50°	509.3	523.5	554.1	596.9	617.2
52.5°	476.7	488.9	529.7	576.5	601.0
55°	442.1	456.3	505.2	556.1	582.6
57.5°	411.5	423.7	478.7	535.8	566.3
60°	372.8	389.1	452.2	513.4	543.9
62.5°	332.1	356.5	425.8	488.9	521.5
65°	293.3	321.9	401.3	464.5	497.1
67.5°	258.7	289.3	370.8	438.0	468.5
70°	218.0	256.7	340.2	405.4	440.0
72.5°	181.3	224.1	305.6	370.8	401.3
75°	144.6	191.5	270.9	325.9	344.3
77.5°	112.0	156.9	232.2	248.5	250.6
80°	83.5	124.3	173.2	175.2	181.3
82.5°	57.0	87.6	112.0	122.2	124.3
85°	36.7	50.9	63.2	65.2	69.3
87.5°	16.3	18.3	22.4	20.4	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)