

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: P390270

Luminaire Tested: **22CZ2-34VHE-HRP-UNV-L950-CD1-SDWPD1-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: P390270
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-SDWPD1-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: 2701.8 lumens
Efficiency: N/A
Efficacy: 107.6 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

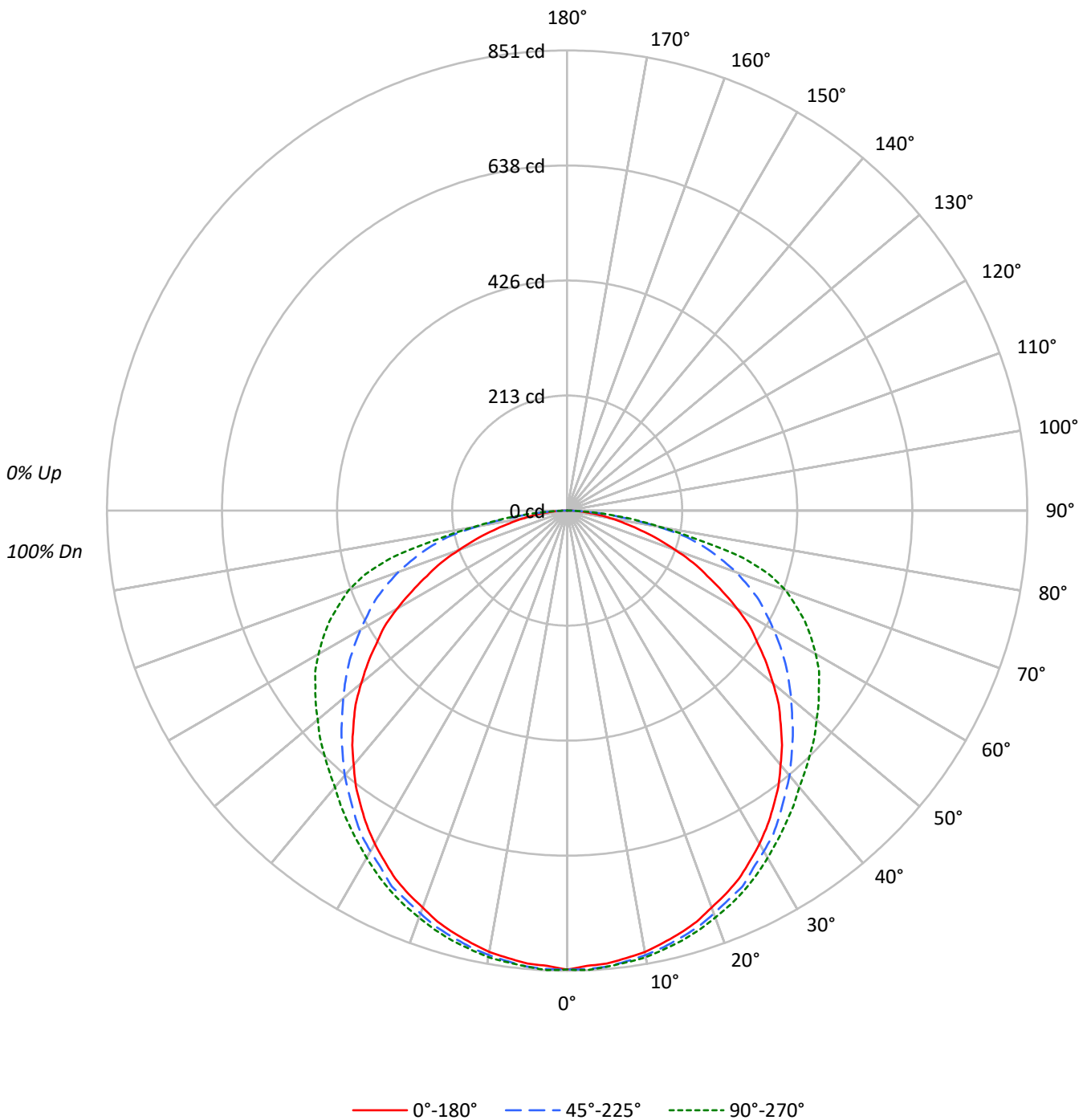
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2284	2284	2284
5°	2271	2287	2287
10°	2265	2281	2292
15°	2254	2276	2292
20°	2237	2271	2294
25°	2231	2278	2301
30°	2211	2260	2304
35°	2187	2253	2318
40°	2158	2248	2346
45°	2125	2246	2420
50°	2080	2263	2521
55°	2023	2312	2667
60°	1957	2375	2856
65°	1822	2493	3088
70°	1674	2611	3378
75°	1467	2748	3492
80°	1263	2617	2741
85°	1105	1902	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.0
10°-20°	230.5	8.5
20°-30°	351.7	13.0
30°-40°	429.4	15.9
40°-50°	459.1	17.0
50°-60°	443.2	16.4
60°-70°	381.5	14.1
70°-80°	258.1	9.6
80°-90°	68.1	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°	662.4	24.5
0°-40°	1091.8	40.4
0°-60°	1994.1	73.8
0°-90°	2701.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2701.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	841	843	847	847	847	80
15°	809	811	817	821	823	228
25°	751	755	767	771	775	346
35°	666	672	686	700	706	417
45°	558	568	590	620	636	431
55°	431	445	493	543	568	386
65°	286	314	392	453	485	285
75°	141	187	264	318	336	151
85°	36	50	62	64	68	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.7	848.7	848.7	848.7	848.7
2.5°	842.7	844.7	848.7	848.7	850.7
5°	840.7	842.7	846.7	846.7	846.7
7.5°	834.8	836.8	840.7	842.7	842.7
10°	828.8	830.8	834.8	836.8	838.7
12.5°	818.9	820.9	826.8	830.8	830.8
15°	808.9	810.9	816.9	820.9	822.8
17.5°	797.0	801.0	806.9	810.9	812.9
20°	781.1	785.1	793.0	799.0	801.0
22.5°	767.2	771.2	779.1	785.1	789.1
25°	751.3	755.3	767.2	771.2	775.1
27.5°	731.4	735.4	745.3	753.3	759.2
30°	711.5	715.5	727.4	737.4	741.4
32.5°	689.7	695.6	709.6	717.5	723.5
35°	665.8	671.8	685.7	699.6	705.6
37.5°	642.0	647.9	661.9	679.7	687.7
40°	614.2	622.1	640.0	663.8	667.8
42.5°	588.3	598.3	614.2	642.0	651.9
45°	558.5	568.4	590.3	620.1	636.0
47.5°	530.7	540.6	564.5	600.2	620.1
50°	496.9	510.8	540.6	582.4	602.2
52.5°	465.1	477.0	516.8	562.5	586.3
55°	431.3	445.2	492.9	542.6	568.4
57.5°	401.5	413.4	467.1	522.7	552.5
60°	363.7	379.6	441.2	500.9	530.7
62.5°	324.0	347.8	415.4	477.0	508.8
65°	286.2	314.0	391.5	453.2	485.0
67.5°	252.4	282.2	361.7	427.3	457.1
70°	212.7	250.4	331.9	395.5	429.3
72.5°	176.9	218.6	298.1	361.7	391.5
75°	141.1	186.8	264.3	318.0	335.9
77.5°	109.3	153.0	226.6	242.5	244.5
80°	81.5	121.2	168.9	170.9	176.9
82.5°	55.7	85.5	109.3	119.3	121.2
85°	35.8	49.7	61.6	63.6	67.6
87.5°	15.9	17.9	21.9	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)