

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: P390290

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L935-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: P390290
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-RDP-UNV-L935-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2046.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

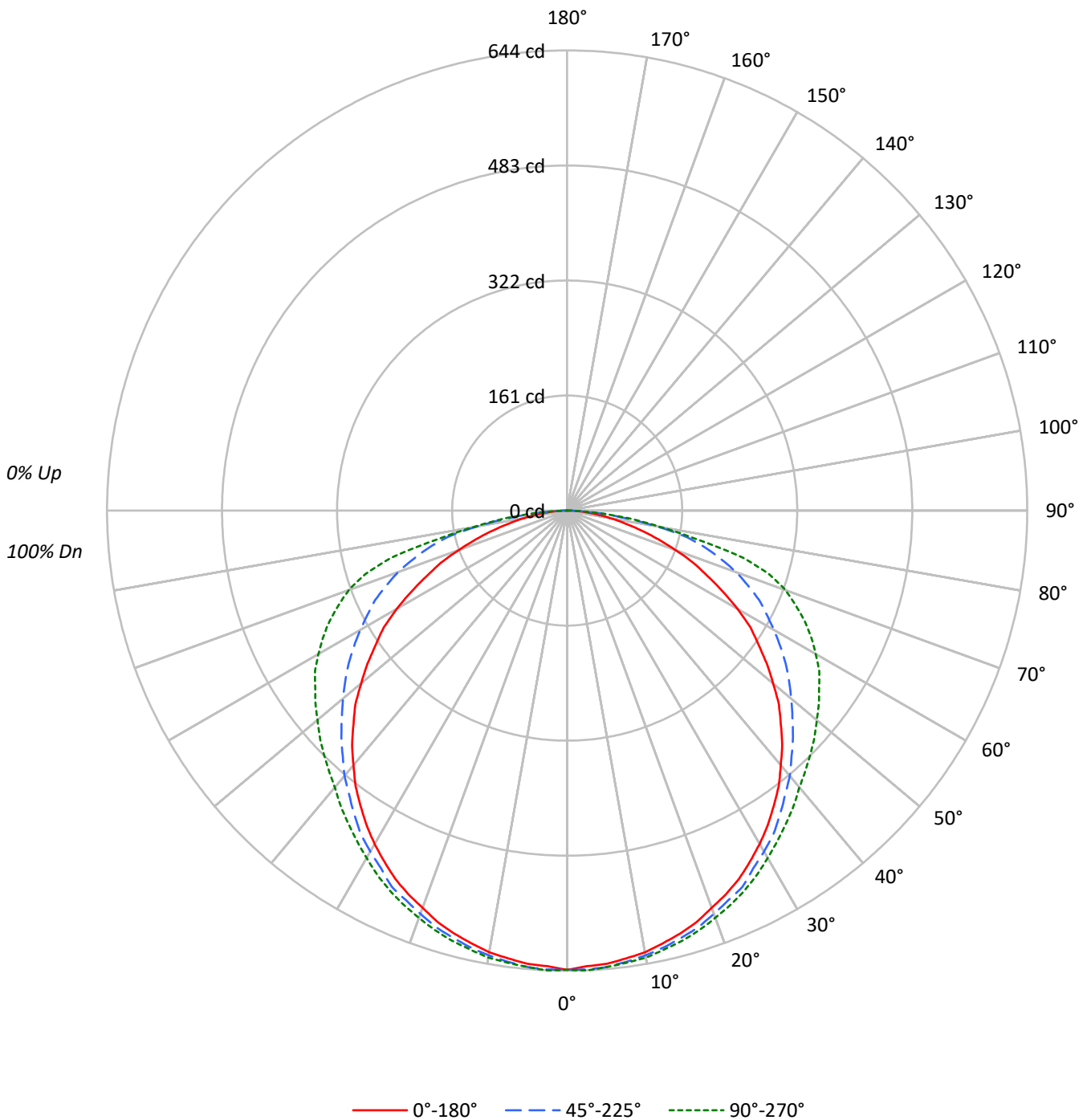
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1729	1729	1729
5°	1720	1732	1732
10°	1715	1727	1736
15°	1707	1723	1736
20°	1694	1720	1737
25°	1689	1725	1743
30°	1674	1712	1744
35°	1656	1706	1755
40°	1634	1702	1776
45°	1609	1701	1833
50°	1575	1714	1909
55°	1532	1751	2020
60°	1482	1798	2163
65°	1380	1888	2338
70°	1267	1978	2558
75°	1111	2082	2645
80°	956	1982	2077
85°	837	1442	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	3.0
10°-20°	174.6	8.5
20°-30°	266.3	13.0
30°-40°	325.2	15.9
40°-50°	347.7	17.0
50°-60°	335.6	16.4
60°-70°	288.9	14.1
70°-80°	195.5	9.6
80°-90°	51.6	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°	501.7	24.5
0°-40°	826.8	40.4
0°-60°	1510.1	73.8
0°-90°	2046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	637	638	641	641	641	60
15°	613	614	619	622	623	173
25°	569	572	581	584	587	262
35°	504	509	519	530	534	316
45°	423	430	447	470	482	326
55°	327	337	373	411	430	293
65°	217	238	296	343	367	216
75°	107	142	200	241	254	115
85°	27	38	47	48	51	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.7	642.7	642.7	642.7	642.7
2.5°	638.2	639.7	642.7	642.7	644.2
5°	636.7	638.2	641.2	641.2	641.2
7.5°	632.1	633.7	636.7	638.2	638.2
10°	627.6	629.1	632.1	633.7	635.2
12.5°	620.1	621.6	626.1	629.1	629.1
15°	612.6	614.1	618.6	621.6	623.1
17.5°	603.6	606.6	611.1	614.1	615.6
20°	591.5	594.5	600.5	605.1	606.6
22.5°	581.0	584.0	590.0	594.5	597.5
25°	568.9	571.9	581.0	584.0	587.0
27.5°	553.9	556.9	564.4	570.4	575.0
30°	538.8	541.8	550.9	558.4	561.4
32.5°	522.3	526.8	537.3	543.3	547.9
35°	504.2	508.7	519.3	529.8	534.3
37.5°	486.2	490.7	501.2	514.7	520.8
40°	465.1	471.1	484.6	502.7	505.7
42.5°	445.5	453.0	465.1	486.2	493.7
45°	422.9	430.5	447.0	469.6	481.6
47.5°	401.9	409.4	427.5	454.5	469.6
50°	376.3	386.8	409.4	441.0	456.0
52.5°	352.2	361.2	391.3	425.9	444.0
55°	326.6	337.1	373.3	410.9	430.5
57.5°	304.0	313.1	353.7	395.8	418.4
60°	275.4	287.5	334.1	379.3	401.9
62.5°	245.3	263.4	314.6	361.2	385.3
65°	216.7	237.8	296.5	343.2	367.2
67.5°	191.1	213.7	273.9	323.6	346.2
70°	161.0	189.6	251.4	299.5	325.1
72.5°	134.0	165.6	225.8	273.9	296.5
75°	106.9	141.5	200.2	240.8	254.4
77.5°	82.8	115.9	171.6	183.6	185.1
80°	61.7	91.8	127.9	129.4	134.0
82.5°	42.1	64.7	82.8	90.3	91.8
85°	27.1	37.6	46.7	48.2	51.2
87.5°	12.0	13.5	16.6	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)