

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: P390289

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L935-CD1-SWPD1-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: P390289
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-SWPD1-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: 2020.6 lumens
Efficiency: N/A
Efficacy: 80.5 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

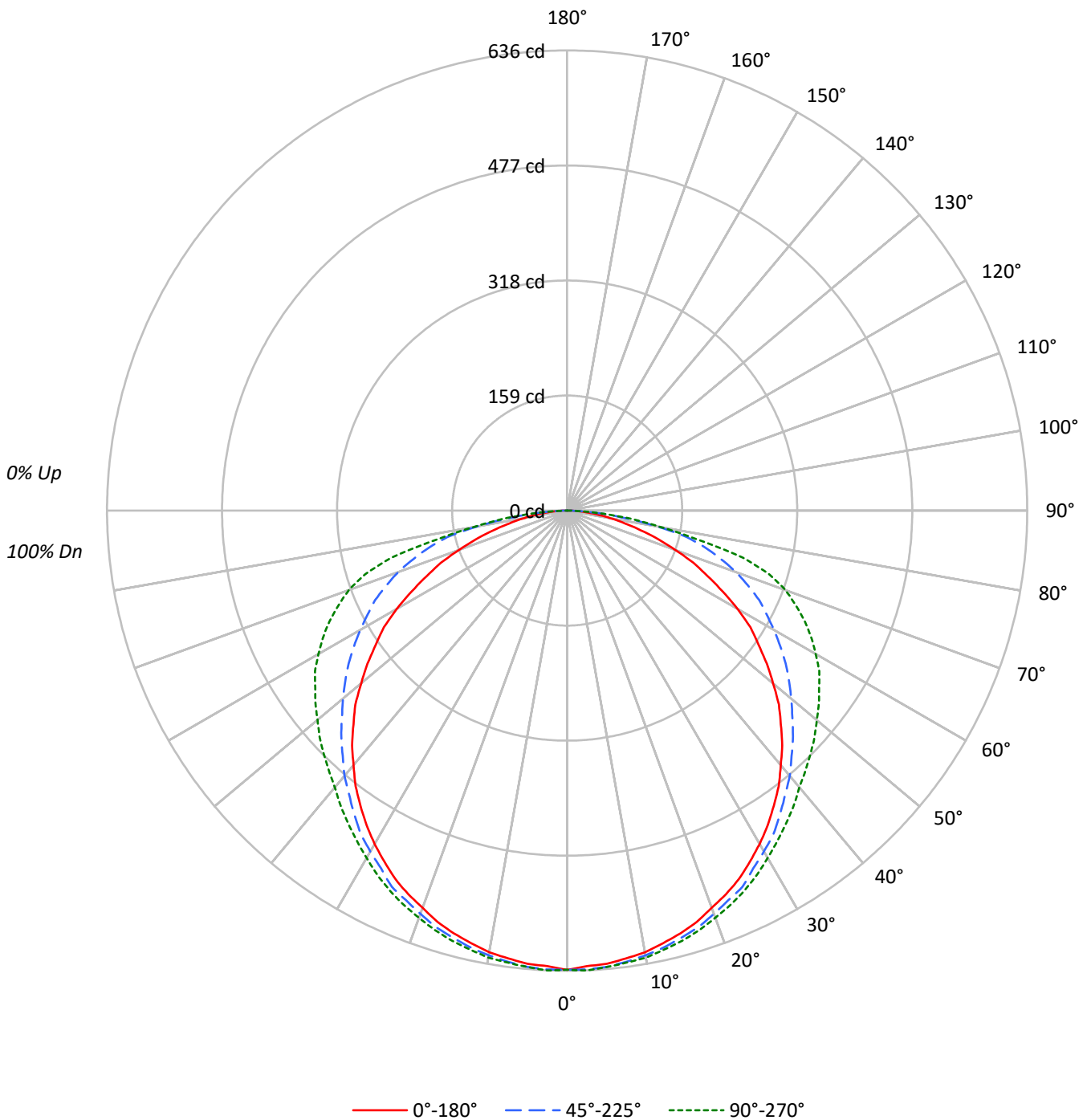
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1708	1708	1708
5°	1699	1710	1710
10°	1694	1706	1714
15°	1685	1702	1714
20°	1673	1698	1715
25°	1668	1704	1721
30°	1653	1690	1723
35°	1636	1685	1734
40°	1613	1681	1754
45°	1590	1680	1810
50°	1556	1693	1886
55°	1514	1729	1994
60°	1464	1776	2136
65°	1363	1864	2309
70°	1251	1953	2526
75°	1097	2056	2612
80°	944	1957	2050
85°	827	1423	1559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	3.0
10°-20°	172.4	8.5
20°-30°	263.0	13.0
30°-40°	321.1	15.9
40°-50°	343.4	17.0
50°-60°	331.4	16.4
60°-70°	285.3	14.1
70°-80°	193.0	9.6
80°-90°	50.9	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°	495.4	24.5
0°-40°	816.6	40.4
0°-60°	1491.3	73.8
0°-90°	2020.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2020.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	629	630	633	633	633	60
15°	605	606	611	614	615	171
25°	562	565	574	577	580	259
35°	498	502	513	523	528	312
45°	418	425	442	464	476	322
55°	323	333	369	406	425	289
65°	214	235	293	339	363	213
75°	106	140	198	238	251	113
85°	27	37	46	48	50	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.7	634.7	634.7	634.7	634.7
2.5°	630.2	631.7	634.7	634.7	636.2
5°	628.8	630.2	633.2	633.2	633.2
7.5°	624.3	625.8	628.8	630.2	630.2
10°	619.8	621.3	624.3	625.8	627.3
12.5°	612.4	613.9	618.4	621.3	621.3
15°	605.0	606.5	610.9	613.9	615.4
17.5°	596.1	599.0	603.5	606.5	607.9
20°	584.2	587.1	593.1	597.5	599.0
22.5°	573.8	576.7	582.7	587.1	590.1
25°	561.9	564.8	573.8	576.7	579.7
27.5°	547.0	550.0	557.4	563.4	567.8
30°	532.1	535.1	544.0	551.5	554.4
32.5°	515.8	520.3	530.7	536.6	541.1
35°	498.0	502.4	512.8	523.2	527.7
37.5°	480.1	484.6	495.0	508.4	514.3
40°	459.3	465.3	478.6	496.5	499.4
42.5°	440.0	447.4	459.3	480.1	487.5
45°	417.7	425.1	441.5	463.8	475.7
47.5°	396.9	404.3	422.1	448.9	463.8
50°	371.6	382.0	404.3	435.5	450.4
52.5°	347.8	356.7	386.5	420.7	438.5
55°	322.6	333.0	368.6	405.8	425.1
57.5°	300.3	309.2	349.3	390.9	413.2
60°	272.0	283.9	330.0	374.6	396.9
62.5°	242.3	260.1	310.7	356.7	380.5
65°	214.0	234.9	292.8	338.9	362.7
67.5°	188.8	211.1	270.5	319.6	341.9
70°	159.0	187.3	248.2	295.8	321.1
72.5°	132.3	163.5	223.0	270.5	292.8
75°	105.5	139.7	197.7	237.8	251.2
77.5°	81.8	114.5	169.5	181.3	182.8
80°	60.9	90.7	126.3	127.8	132.3
82.5°	41.6	63.9	81.8	89.2	90.7
85°	26.8	37.2	46.1	47.6	50.5
87.5°	11.9	13.4	16.4	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)