

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: P390285

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L930-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: P390285
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-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1948.0 lumens
Efficiency: N/A
Efficacy: 77.6 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

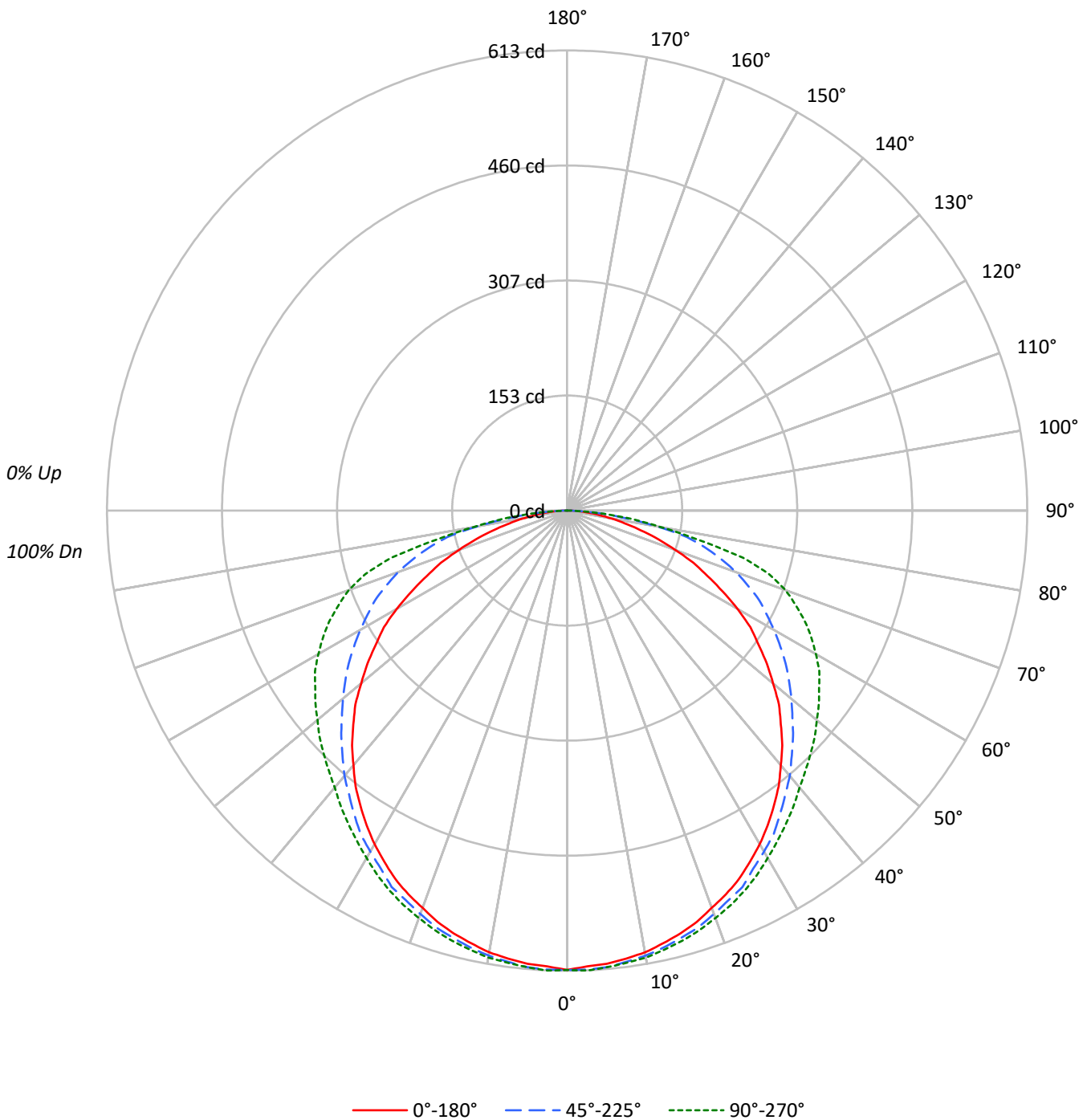
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1647	1647	1647
5°	1638	1649	1649
10°	1633	1645	1652
15°	1625	1641	1653
20°	1613	1637	1654
25°	1608	1642	1659
30°	1594	1630	1661
35°	1577	1624	1671
40°	1555	1621	1691
45°	1533	1620	1745
50°	1500	1632	1818
55°	1459	1667	1923
60°	1411	1712	2059
65°	1314	1798	2227
70°	1206	1883	2435
75°	1057	1982	2518
80°	911	1888	1976
85°	797	1371	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.0
10°-20°	166.2	8.5
20°-30°	253.5	13.0
30°-40°	309.6	15.9
40°-50°	331.0	17.0
50°-60°	319.5	16.4
60°-70°	275.0	14.1
70°-80°	186.1	9.6
80°-90°	49.1	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°	477.6	24.5
0°-40°	787.2	40.4
0°-60°	1437.8	73.8
0°-90°	1948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	606	608	610	610	610	58
15°	583	585	589	592	593	165
25°	542	544	553	556	559	249
35°	480	484	494	504	509	300
45°	403	410	426	447	459	311
55°	311	321	355	391	410	279
65°	206	226	282	327	350	205
75°	102	135	191	229	242	109
85°	26	36	44	46	49	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	611.9	611.9	611.9	611.9	611.9
2.5°	607.6	609.0	611.9	611.9	613.3
5°	606.2	607.6	610.5	610.5	610.5
7.5°	601.9	603.3	606.2	607.6	607.6
10°	597.6	599.0	601.9	603.3	604.7
12.5°	590.4	591.8	596.1	599.0	599.0
15°	583.2	584.7	589.0	591.8	593.3
17.5°	574.6	577.5	581.8	584.7	586.1
20°	563.2	566.0	571.8	576.1	577.5
22.5°	553.1	556.0	561.7	566.0	568.9
25°	541.7	544.5	553.1	556.0	558.9
27.5°	527.4	530.2	537.4	543.1	547.4
30°	513.0	515.9	524.5	531.7	534.5
32.5°	497.3	501.6	511.6	517.3	521.6
35°	480.1	484.4	494.4	504.4	508.7
37.5°	462.9	467.2	477.2	490.1	495.8
40°	442.8	448.5	461.4	478.6	481.5
42.5°	424.2	431.3	442.8	462.9	470.0
45°	402.7	409.8	425.6	447.1	458.6
47.5°	382.6	389.8	407.0	432.8	447.1
50°	358.3	368.3	389.8	419.9	434.2
52.5°	335.3	343.9	372.6	405.5	422.7
55°	311.0	321.0	355.4	391.2	409.8
57.5°	289.5	298.1	336.8	376.9	398.4
60°	262.2	273.7	318.1	361.1	382.6
62.5°	233.6	250.8	299.5	343.9	366.9
65°	206.4	226.4	282.3	326.7	349.7
67.5°	182.0	203.5	260.8	308.1	329.6
70°	153.3	180.6	239.3	285.2	309.5
72.5°	127.5	157.6	215.0	260.8	282.3
75°	101.7	134.7	190.6	229.3	242.2
77.5°	78.8	110.3	163.4	174.8	176.3
80°	58.8	87.4	121.8	123.2	127.5
82.5°	40.1	61.6	78.8	86.0	87.4
85°	25.8	35.8	44.4	45.9	48.7
87.5°	11.5	12.9	15.8	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)