

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: P388206

Luminaire Tested: **22CZ2-20VHE-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: P388206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20VHE-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1776.4 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

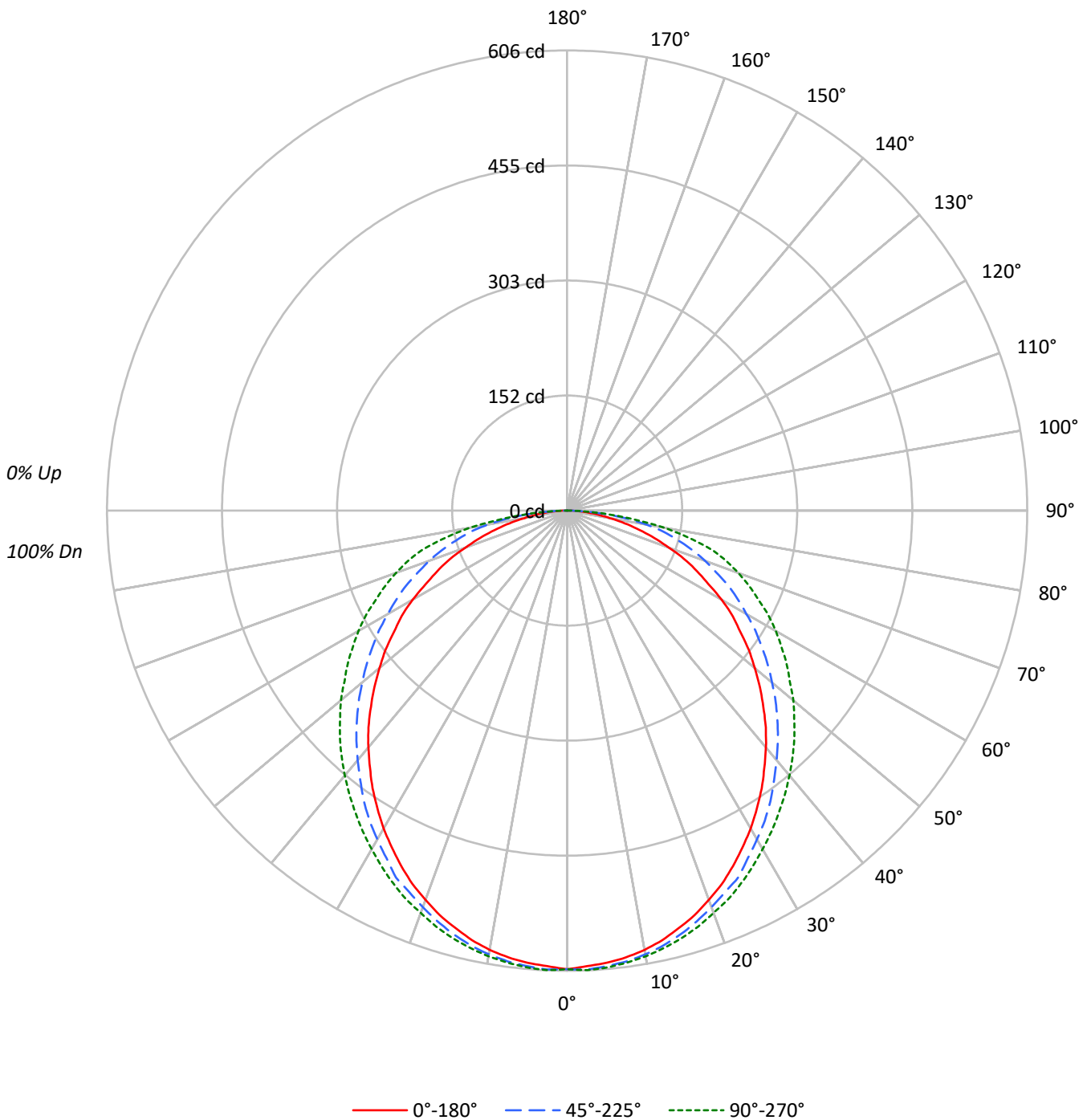
Input Watts (W): 14.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1625	1625	1625
5°	1615	1627	1632
10°	1605	1622	1629
15°	1585	1610	1624
20°	1562	1592	1615
25°	1534	1583	1609
30°	1502	1554	1600
35°	1467	1533	1597
40°	1431	1508	1600
45°	1391	1490	1610
50°	1350	1475	1629
55°	1304	1468	1657
60°	1265	1468	1708
65°	1202	1492	1770
70°	1121	1520	1884
75°	1027	1572	2036
80°	894	1640	2005
85°	781	1457	1593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.2
10°-20°	162.7	9.2
20°-30°	244.2	13.7
30°-40°	291.9	16.4
40°-50°	303.5	17.1
50°-60°	281.3	15.8
60°-70°	230.7	13.0
70°-80°	156.0	8.8
80°-90°	49.0	2.8
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°	464.1	26.1
0°-40°	755.9	42.6
0°-60°	1340.7	75.5
0°-90°	1776.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	598	599	602	603	604	57
15°	569	572	578	581	583	161
25°	517	521	533	539	542	238
35°	447	453	467	481	486	279
45°	365	372	392	414	423	282
55°	278	287	313	341	353	250
65°	189	199	234	265	278	187
75°	99	115	151	182	196	105
85°	25	35	47	52	52	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.0	604.0	604.0	604.0	604.0
2.5°	600.5	602.3	604.9	605.8	605.8
5°	597.9	598.8	602.3	603.1	604.0
7.5°	593.5	595.3	598.8	599.6	600.5
10°	587.4	589.1	593.5	595.3	596.1
12.5°	579.5	581.3	586.5	589.1	590.0
15°	569.0	571.7	577.8	581.3	583.0
17.5°	558.6	561.2	567.3	572.5	574.3
20°	545.4	551.6	555.9	562.9	563.8
22.5°	532.3	535.8	543.7	550.7	554.2
25°	516.6	521.0	533.2	539.3	541.9
27.5°	500.0	506.1	515.7	525.3	528.8
30°	483.4	487.8	500.0	511.4	514.8
32.5°	465.0	471.1	484.3	495.6	500.9
35°	446.7	452.8	466.8	480.8	486.0
37.5°	426.6	433.6	447.5	464.2	471.1
40°	407.3	412.6	429.2	449.3	455.4
42.5°	387.2	393.3	410.8	432.7	439.7
45°	365.4	372.4	391.6	414.3	423.1
47.5°	344.4	351.4	372.4	395.1	405.6
50°	322.5	331.3	352.3	378.5	389.0
52.5°	301.6	309.4	333.0	360.1	369.7
55°	278.0	286.7	312.9	340.9	353.1
57.5°	258.7	264.9	293.7	322.5	334.8
60°	235.1	243.0	272.7	303.3	317.3
62.5°	209.8	222.9	253.5	285.0	298.9
65°	188.8	199.3	234.3	264.9	278.0
67.5°	167.0	178.3	212.4	244.8	259.6
70°	142.5	157.3	193.2	225.5	239.5
72.5°	120.6	136.4	173.1	204.5	219.4
75°	98.8	115.4	151.2	181.8	195.8
77.5°	77.8	96.2	131.1	154.7	163.5
80°	57.7	75.2	105.8	122.4	129.4
82.5°	40.2	55.1	77.8	86.5	88.3
85°	25.3	35.0	47.2	52.4	51.6
87.5°	11.4	14.0	17.5	19.2	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)