

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: P388375

Luminaire Tested: **22CZ2-55VHE-UNV-L950-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: P388375
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: 22CZ2-55VHE-UNV-L950-CD1-SWPD1-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: 4951.9 lumens
Efficiency: N/A
Efficacy: 125.7 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

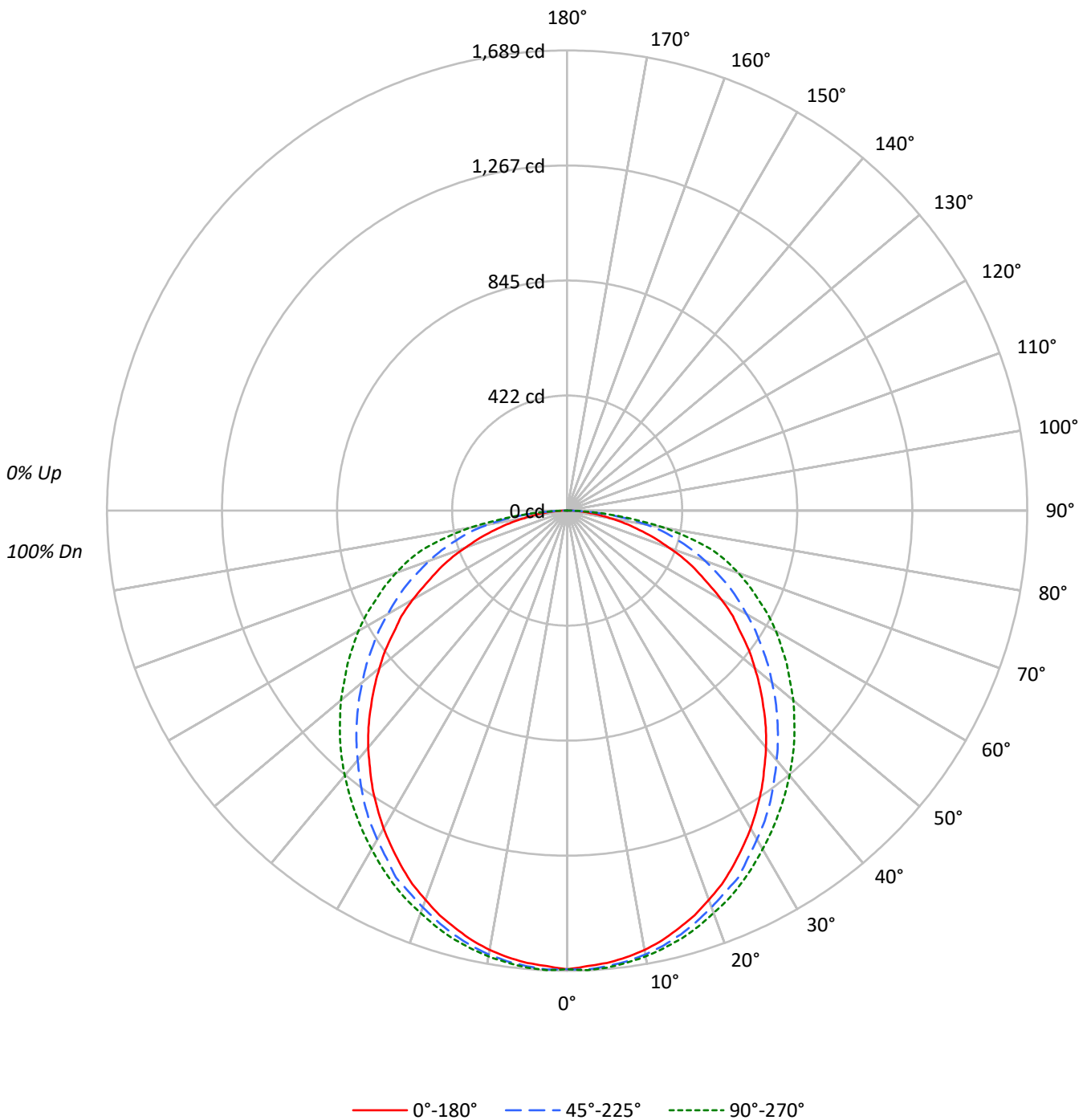
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4531	4531	4531
5°	4502	4535	4548
10°	4474	4521	4541
15°	4419	4487	4528
20°	4354	4438	4501
25°	4276	4413	4486
30°	4187	4331	4460
35°	4090	4275	4451
40°	3989	4203	4460
45°	3876	4154	4488
50°	3764	4111	4539
55°	3636	4092	4618
60°	3528	4091	4760
65°	3351	4158	4934
70°	3125	4237	5253
75°	2862	4382	5675
80°	2492	4568	5588
85°	2183	4063	4440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.2
10°-20°	453.5	9.2
20°-30°	680.9	13.7
30°-40°	813.6	16.4
40°-50°	846.0	17.1
50°-60°	784.1	15.8
60°-70°	643.2	13.0
70°-80°	434.8	8.8
80°-90°	136.6	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°	1293.7	26.1
0°-40°	2107.2	42.6
0°-60°	3737.3	75.5
0°-90°	4951.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1667	1669	1679	1681	1684	158
15°	1586	1594	1611	1620	1625	447
25°	1440	1452	1486	1503	1511	663
35°	1245	1262	1301	1340	1355	778
45°	1018	1038	1092	1155	1179	786
55°	775	799	872	950	984	696
65°	526	556	653	738	775	520
75°	275	322	422	507	546	292
85°	71	98	132	146	144	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.7	1683.7	1683.7	1683.7	1683.7
2.5°	1674.0	1678.9	1686.2	1688.6	1688.6
5°	1666.7	1669.1	1678.9	1681.3	1683.7
7.5°	1654.5	1659.4	1669.1	1671.6	1674.0
10°	1637.4	1642.3	1654.5	1659.4	1661.8
12.5°	1615.5	1620.4	1635.0	1642.3	1644.8
15°	1586.3	1593.6	1610.6	1620.4	1625.3
17.5°	1557.0	1564.3	1581.4	1596.0	1600.9
20°	1520.5	1537.5	1549.7	1569.2	1571.7
22.5°	1483.9	1493.7	1515.6	1535.1	1544.8
25°	1440.1	1452.3	1486.4	1503.4	1510.7
27.5°	1393.8	1410.8	1437.6	1464.4	1474.2
30°	1347.5	1359.7	1393.8	1425.5	1435.2
32.5°	1296.3	1313.4	1349.9	1381.6	1396.2
35°	1245.1	1262.2	1301.2	1340.2	1354.8
37.5°	1189.1	1208.6	1247.6	1293.9	1313.4
40°	1135.5	1150.1	1196.4	1252.4	1269.5
42.5°	1079.4	1096.5	1145.2	1206.2	1225.6
45°	1018.5	1038.0	1091.6	1155.0	1179.3
47.5°	960.0	979.5	1038.0	1101.4	1130.6
50°	899.1	923.5	982.0	1055.1	1084.3
52.5°	840.7	862.6	928.4	1003.9	1030.7
55°	774.9	799.2	872.3	950.3	984.4
57.5°	721.3	738.3	818.7	899.1	933.2
60°	655.5	677.4	760.2	845.5	884.5
62.5°	584.8	621.4	706.6	794.4	833.3
65°	526.3	555.6	653.0	738.3	774.9
67.5°	465.4	497.1	592.1	682.3	723.7
70°	397.2	438.6	538.5	628.7	667.6
72.5°	336.3	380.1	482.5	570.2	611.6
75°	275.3	321.6	421.5	506.8	545.8
77.5°	216.9	268.0	365.5	431.3	455.7
80°	160.8	209.6	294.8	341.1	360.6
82.5°	112.1	153.5	216.9	241.2	246.1
85°	70.7	97.5	131.6	146.2	143.8
87.5°	31.7	39.0	48.7	53.6	51.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)