

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: P388370

Luminaire Tested: **22CZ2-55VHE-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: P388370
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-L935-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

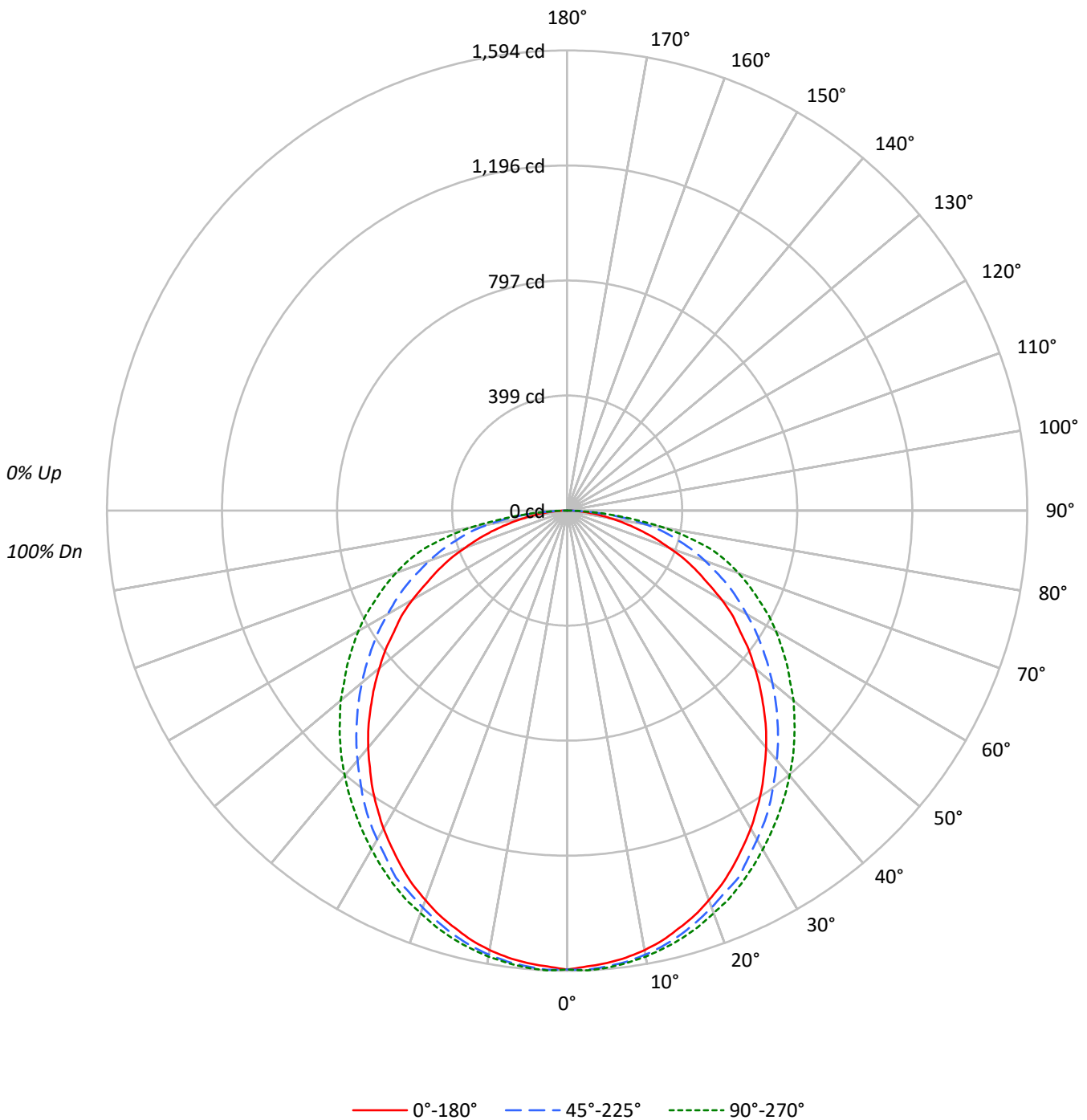
Lumens per Lamp: N/A
Luminaire Lumens: 4675.5 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4278	4278	4278
5°	4251	4282	4294
10°	4224	4268	4288
15°	4172	4237	4275
20°	4111	4190	4249
25°	4037	4167	4235
30°	3953	4089	4211
35°	3862	4036	4202
40°	3766	3968	4210
45°	3660	3922	4238
50°	3554	3882	4286
55°	3432	3864	4361
60°	3331	3863	4494
65°	3164	3926	4658
70°	2950	4000	4960
75°	2703	4138	5358
80°	2352	4314	5277
85°	2059	3835	4190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.2
10°-20°	428.2	9.2
20°-30°	642.9	13.7
30°-40°	768.2	16.4
40°-50°	798.8	17.1
50°-60°	740.3	15.8
60°-70°	607.3	13.0
70°-80°	410.5	8.8
80°-90°	129.0	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°	1221.4	26.1
0°-40°	1989.6	42.6
0°-60°	3528.7	75.5
0°-90°	4675.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4675.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1574	1576	1585	1588	1590	149
15°	1498	1505	1521	1530	1534	422
25°	1360	1371	1403	1420	1426	626
35°	1176	1192	1229	1265	1279	735
45°	962	980	1031	1090	1114	743
55°	732	755	824	897	930	658
65°	497	525	617	697	732	491
75°	260	304	398	478	515	276
85°	67	92	124	138	136	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.8	1589.8	1589.8	1589.8	1589.8
2.5°	1580.6	1585.2	1592.1	1594.4	1594.4
5°	1573.7	1576.0	1585.2	1587.5	1589.8
7.5°	1562.1	1566.7	1576.0	1578.3	1580.6
10°	1546.0	1550.6	1562.1	1566.7	1569.1
12.5°	1525.3	1529.9	1543.7	1550.6	1552.9
15°	1497.7	1504.6	1520.7	1529.9	1534.5
17.5°	1470.1	1477.0	1493.1	1506.9	1511.5
20°	1435.6	1451.7	1463.2	1481.6	1483.9
22.5°	1401.1	1410.3	1431.0	1449.4	1458.6
25°	1359.7	1371.2	1403.4	1419.5	1426.4
27.5°	1316.0	1332.1	1357.4	1382.7	1391.9
30°	1272.3	1283.8	1316.0	1345.9	1355.1
32.5°	1224.0	1240.1	1274.6	1304.5	1318.3
35°	1175.6	1191.7	1228.6	1265.4	1279.2
37.5°	1122.7	1141.1	1177.9	1221.7	1240.1
40°	1072.1	1085.9	1129.6	1182.5	1198.6
42.5°	1019.2	1035.3	1081.3	1138.8	1157.2
45°	961.7	980.1	1030.7	1090.5	1113.5
47.5°	906.5	924.9	980.1	1039.9	1067.5
50°	848.9	872.0	927.2	996.2	1023.8
52.5°	793.7	814.4	876.6	947.9	973.2
55°	731.6	754.6	823.6	897.3	929.5
57.5°	681.0	697.1	773.0	848.9	881.2
60°	618.9	639.6	717.8	798.3	835.1
62.5°	552.2	586.7	667.2	750.0	786.8
65°	496.9	524.6	616.6	697.1	731.6
67.5°	439.4	469.3	559.1	644.2	683.3
70°	375.0	414.1	508.4	593.6	630.4
72.5°	317.5	358.9	455.5	538.4	577.5
75°	260.0	303.7	398.0	478.5	515.3
77.5°	204.8	253.1	345.1	407.2	430.2
80°	151.8	197.9	278.4	322.1	340.5
82.5°	105.8	144.9	204.8	227.8	232.4
85°	66.7	92.0	124.2	138.0	135.7
87.5°	29.9	36.8	46.0	50.6	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)