

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: P389302

Luminaire Tested: **22CZ2-55VHE-S-UNV-L930-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: P389302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-S-UNV-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4734.7 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

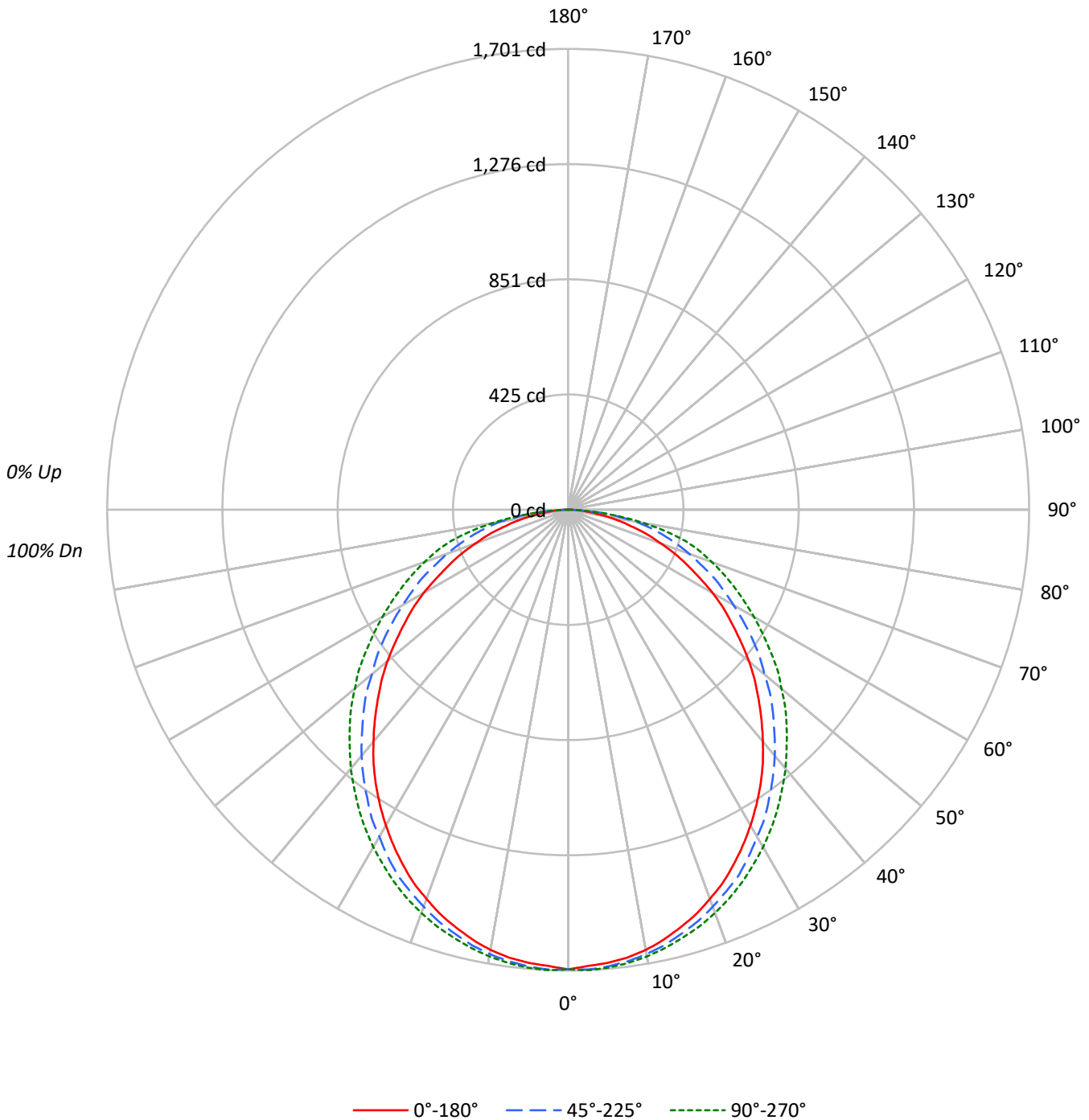
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4566	4566	4566
5°	4535	4571	4583
10°	4509	4552	4576
15°	4450	4511	4554
20°	4378	4466	4536
25°	4290	4421	4506
30°	4180	4331	4469
35°	4064	4253	4427
40°	3927	4167	4384
45°	3783	4069	4338
50°	3644	3958	4300
55°	3472	3887	4270
60°	3317	3793	4257
65°	3095	3769	4304
70°	2851	3737	4432
75°	2572	3790	4662
80°	2225	3902	4382
85°	1840	3273	3273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	3.4
10°-20°	456.6	9.6
20°-30°	683.2	14.4
30°-40°	809.1	17.1
40°-50°	824.5	17.4
50°-60°	739.0	15.6
60°-70°	578.6	12.2
70°-80°	373.1	7.9
80°-90°	110.2	2.3
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°	1300.2	27.5
0°-40°	2109.3	44.5
0°-60°	3672.8	77.6
0°-90°	4734.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4734.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1679	1683	1692	1694	1697	159
15°	1597	1606	1619	1632	1635	450
25°	1445	1458	1489	1509	1518	665
35°	1237	1253	1294	1334	1348	773
45°	994	1016	1069	1124	1140	768
55°	740	764	828	886	910	664
65°	486	515	592	650	676	483
75°	247	285	364	426	448	265
85°	60	82	106	106	106	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.6	1696.6	1696.6	1696.6	1696.6
2.5°	1685.5	1690.0	1698.8	1701.0	1701.0
5°	1678.9	1683.3	1692.2	1694.4	1696.6
7.5°	1667.9	1670.1	1681.1	1685.5	1687.8
10°	1650.2	1654.6	1665.7	1672.3	1674.5
12.5°	1625.9	1632.5	1645.8	1654.6	1656.8
15°	1597.2	1606.0	1619.3	1632.5	1634.7
17.5°	1566.3	1575.1	1592.8	1608.2	1612.6
20°	1528.7	1539.7	1559.6	1577.3	1583.9
22.5°	1491.1	1500.0	1524.3	1546.4	1553.0
25°	1444.8	1458.0	1488.9	1508.8	1517.7
27.5°	1396.2	1411.6	1442.5	1469.1	1477.9
30°	1345.3	1360.8	1393.9	1427.1	1438.1
32.5°	1292.3	1310.0	1349.8	1382.9	1393.9
35°	1237.1	1252.6	1294.5	1334.3	1347.6
37.5°	1179.7	1192.9	1241.5	1283.5	1296.7
40°	1117.8	1135.5	1186.3	1234.9	1248.1
42.5°	1056.0	1075.8	1126.6	1179.7	1192.9
45°	994.1	1016.2	1069.2	1124.4	1139.9
47.5°	934.5	952.1	1011.8	1064.8	1086.9
50°	870.4	888.1	945.5	1005.1	1027.2
52.5°	804.1	828.4	890.3	947.7	974.2
55°	740.0	764.3	828.4	885.9	910.2
57.5°	680.4	700.3	766.6	826.2	850.5
60°	616.3	634.0	704.7	768.8	790.9
62.5°	547.9	574.4	647.3	706.9	733.4
65°	486.0	514.7	592.0	649.5	676.0
67.5°	428.6	455.1	530.2	592.0	620.8
70°	362.3	397.6	475.0	536.8	563.3
72.5°	309.3	340.2	419.7	481.6	510.3
75°	247.4	285.0	364.5	426.4	448.4
77.5°	196.6	234.2	309.3	357.9	368.9
80°	143.6	181.1	251.8	276.1	282.8
82.5°	97.2	132.5	181.1	187.8	190.0
85°	59.6	81.7	106.0	106.0	106.0
87.5°	28.7	33.1	37.6	35.3	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)