

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: P388376

Luminaire Tested: **22CZ2-55VHE-UNV-L950-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: P388376
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-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: 5014.1 lumens
Efficiency: N/A
Efficacy: 127.3 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

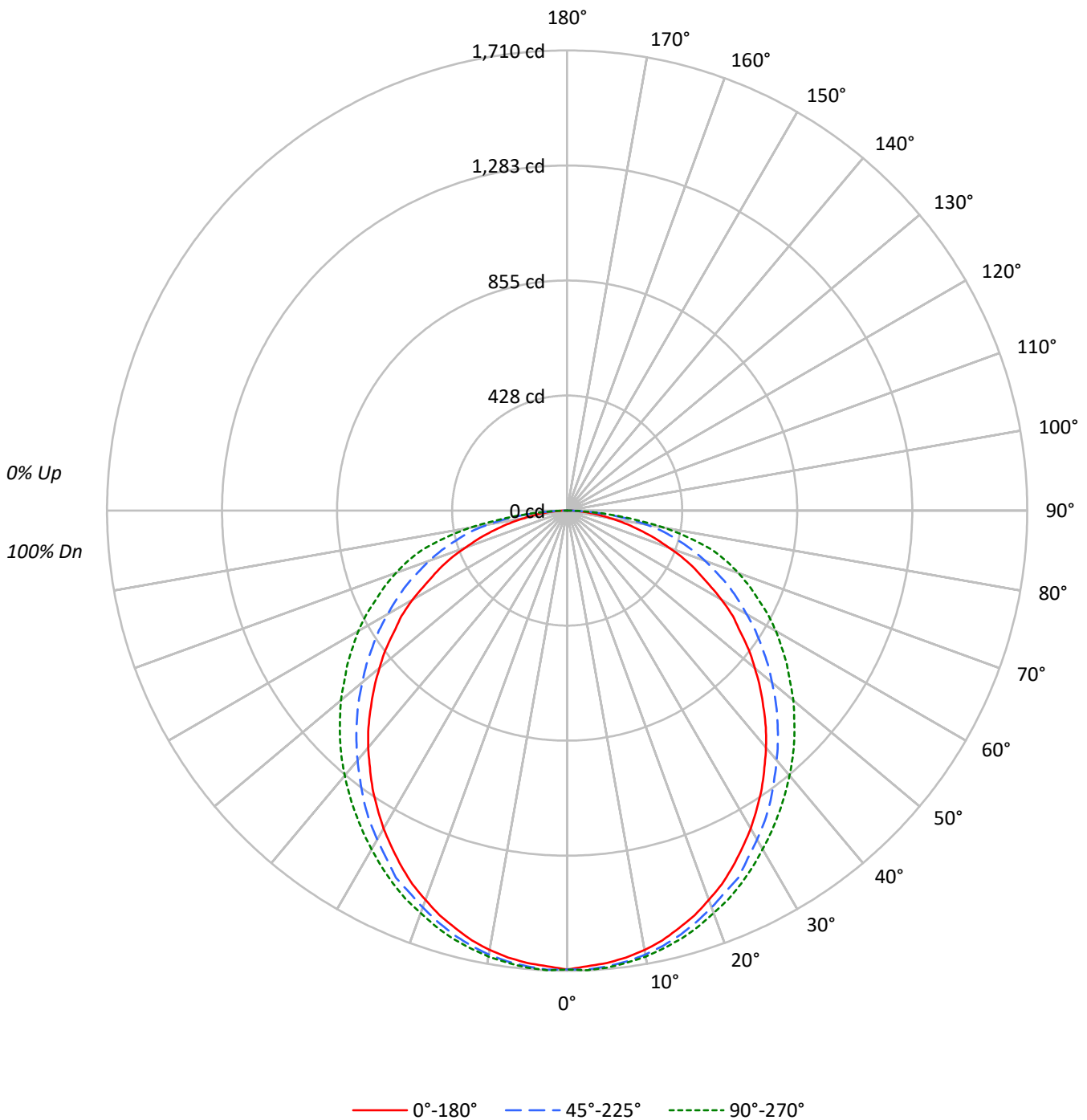
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4588	4588	4588
5°	4559	4592	4605
10°	4530	4578	4598
15°	4475	4544	4585
20°	4409	4494	4557
25°	4330	4469	4542
30°	4240	4385	4515
35°	4142	4328	4506
40°	4039	4255	4515
45°	3925	4206	4545
50°	3811	4163	4596
55°	3681	4144	4677
60°	3572	4143	4820
65°	3393	4210	4996
70°	3164	4290	5319
75°	2899	4438	5747
80°	2523	4626	5659
85°	2211	4113	4495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	3.2
10°-20°	459.2	9.2
20°-30°	689.4	13.7
30°-40°	823.8	16.4
40°-50°	856.6	17.1
50°-60°	794.0	15.8
60°-70°	651.2	13.0
70°-80°	440.2	8.8
80°-90°	138.3	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°	1309.9	26.1
0°-40°	2133.7	42.6
0°-60°	3784.3	75.5
0°-90°	5014.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1688	1690	1700	1702	1705	160
15°	1606	1614	1631	1641	1646	453
25°	1458	1470	1505	1522	1530	672
35°	1261	1278	1318	1357	1372	788
45°	1031	1051	1105	1170	1194	796
55°	785	809	883	962	997	705
65°	533	562	661	748	785	527
75°	279	326	427	513	553	296
85°	72	99	133	148	146	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.9	1704.9	1704.9	1704.9	1704.9
2.5°	1695.0	1700.0	1707.4	1709.8	1709.8
5°	1687.6	1690.1	1700.0	1702.4	1704.9
7.5°	1675.3	1680.2	1690.1	1692.6	1695.0
10°	1658.0	1662.9	1675.3	1680.2	1682.7
12.5°	1635.8	1640.7	1655.5	1662.9	1665.4
15°	1606.2	1613.6	1630.9	1640.7	1645.7
17.5°	1576.6	1584.0	1601.3	1616.1	1621.0
20°	1539.6	1556.8	1569.2	1588.9	1591.4
22.5°	1502.6	1512.4	1534.6	1554.4	1564.3
25°	1458.2	1470.5	1505.0	1522.3	1529.7
27.5°	1411.3	1428.6	1455.7	1482.8	1492.7
30°	1364.4	1376.7	1411.3	1443.4	1453.2
32.5°	1312.6	1329.9	1366.9	1398.9	1413.7
35°	1260.8	1278.0	1317.5	1357.0	1371.8
37.5°	1204.0	1223.8	1263.2	1310.1	1329.9
40°	1149.7	1164.6	1211.4	1268.2	1285.4
42.5°	1093.0	1110.3	1159.6	1221.3	1241.0
45°	1031.3	1051.1	1105.3	1169.5	1194.2
47.5°	972.1	991.8	1051.1	1115.2	1144.8
50°	910.4	935.1	994.3	1068.3	1097.9
52.5°	851.2	873.4	940.0	1016.5	1043.7
55°	784.6	809.3	883.3	962.2	996.8
57.5°	730.3	747.6	829.0	910.4	945.0
60°	663.7	685.9	769.8	856.1	895.6
62.5°	592.1	629.2	715.5	804.3	843.8
65°	532.9	562.5	661.2	747.6	784.6
67.5°	471.2	503.3	599.5	690.8	732.8
70°	402.2	444.1	545.3	636.6	676.0
72.5°	340.5	384.9	488.5	577.3	619.3
75°	278.8	325.7	426.8	513.2	552.7
77.5°	219.6	271.4	370.1	436.7	461.4
80°	162.8	212.2	298.5	345.4	365.2
82.5°	113.5	155.4	219.6	244.3	249.2
85°	71.6	98.7	133.2	148.0	145.6
87.5°	32.1	39.5	49.3	54.3	51.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)