

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: P388373

Luminaire Tested: **22CZ2-55VHE-UNV-L940-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: P388373
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-L940-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

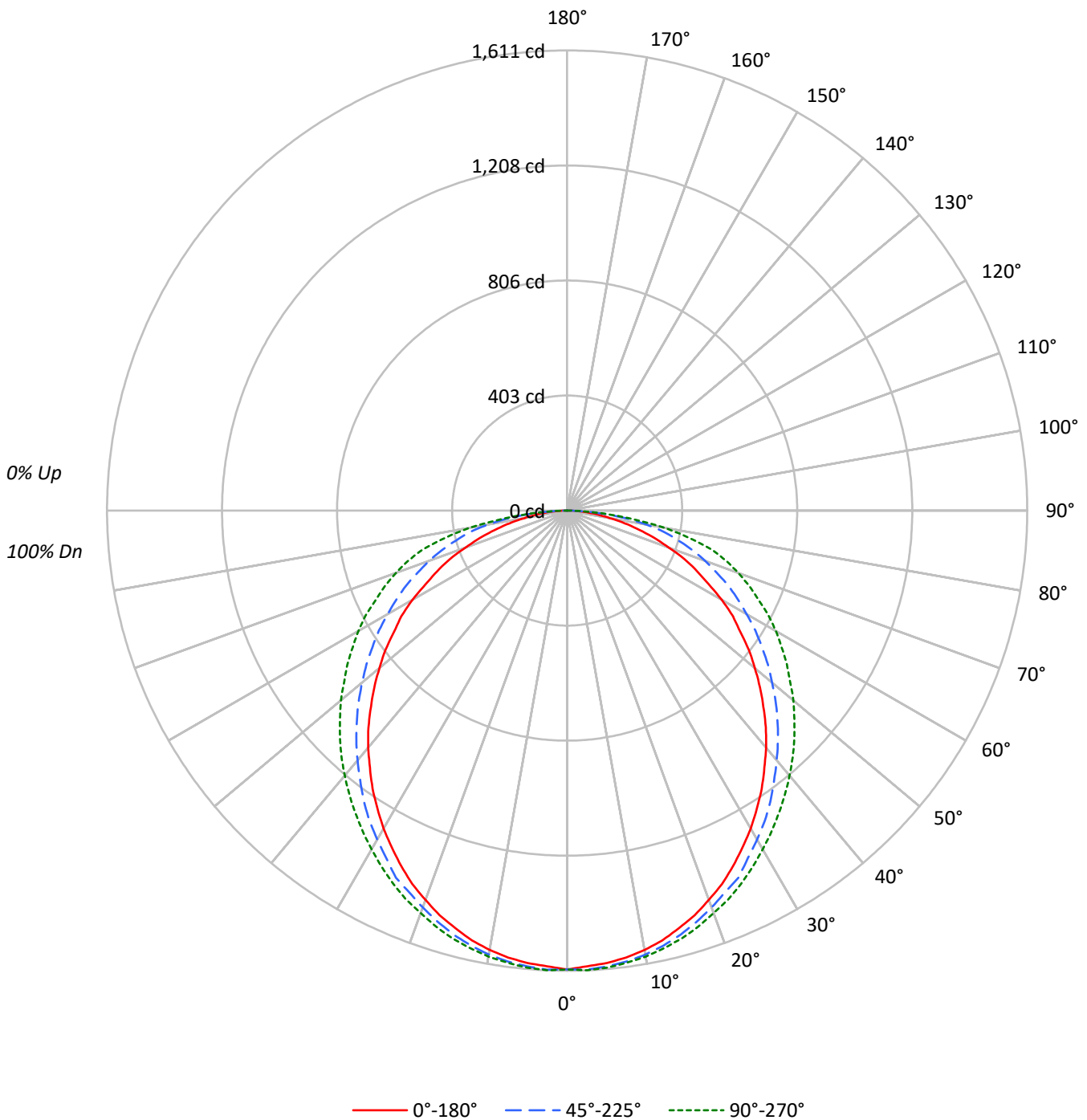
Lumens per Lamp: N/A
Luminaire Lumens: 4723.9 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4322	4322	4322
5°	4295	4326	4339
10°	4268	4313	4332
15°	4216	4281	4319
20°	4154	4234	4294
25°	4079	4210	4279
30°	3994	4131	4254
35°	3902	4078	4246
40°	3805	4009	4254
45°	3698	3963	4281
50°	3591	3922	4330
55°	3468	3904	4406
60°	3365	3903	4541
65°	3197	3967	4707
70°	2981	4042	5011
75°	2731	4181	5414
80°	2377	4359	5331
85°	2081	3875	4233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	3.2
10°-20°	432.7	9.2
20°-30°	649.5	13.7
30°-40°	776.1	16.4
40°-50°	807.0	17.1
50°-60°	748.0	15.8
60°-70°	613.6	13.0
70°-80°	414.8	8.8
80°-90°	130.3	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°	1234.1	26.1
0°-40°	2010.2	42.6
0°-60°	3565.3	75.5
0°-90°	4723.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4723.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1590	1592	1602	1604	1606	151
15°	1513	1520	1536	1546	1550	427
25°	1374	1385	1418	1434	1441	633
35°	1188	1204	1241	1278	1292	742
45°	972	990	1041	1102	1125	750
55°	739	762	832	906	939	664
65°	502	530	623	704	739	496
75°	263	307	402	484	521	279
85°	67	93	126	140	137	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1606.2	1606.2	1606.2	1606.2	1606.2
2.5°	1596.9	1601.6	1608.5	1610.9	1610.9
5°	1589.9	1592.3	1601.6	1603.9	1606.2
7.5°	1578.3	1583.0	1592.3	1594.6	1596.9
10°	1562.0	1566.7	1578.3	1583.0	1585.3
12.5°	1541.1	1545.8	1559.7	1566.7	1569.0
15°	1513.2	1520.2	1536.5	1545.8	1550.4
17.5°	1485.3	1492.3	1508.6	1522.5	1527.2
20°	1450.5	1466.7	1478.4	1497.0	1499.3
22.5°	1415.6	1424.9	1445.8	1464.4	1473.7
25°	1373.8	1385.4	1417.9	1434.2	1441.2
27.5°	1329.6	1345.9	1371.4	1397.0	1406.3
30°	1285.4	1297.1	1329.6	1359.8	1369.1
32.5°	1236.6	1252.9	1287.8	1318.0	1331.9
35°	1187.8	1204.1	1241.3	1278.5	1292.4
37.5°	1134.3	1152.9	1190.1	1234.3	1252.9
40°	1083.2	1097.2	1141.3	1194.8	1211.1
42.5°	1029.7	1046.0	1092.5	1150.6	1169.2
45°	971.6	990.2	1041.4	1101.8	1125.0
47.5°	915.8	934.4	990.2	1050.7	1078.6
50°	857.7	881.0	936.8	1006.5	1034.4
52.5°	801.9	822.9	885.6	957.7	983.3
55°	739.2	762.4	832.2	906.5	939.1
57.5°	688.0	704.3	781.0	857.7	890.3
60°	625.3	646.2	725.2	806.6	843.8
62.5°	557.9	592.7	674.1	757.8	795.0
65°	502.1	530.0	623.0	704.3	739.2
67.5°	444.0	474.2	564.8	650.9	690.4
70°	378.9	418.4	513.7	599.7	636.9
72.5°	320.8	362.6	460.2	543.9	583.4
75°	262.7	306.8	402.1	483.5	520.7
77.5°	206.9	255.7	348.7	411.4	434.7
80°	153.4	199.9	281.3	325.4	344.0
82.5°	106.9	146.4	206.9	230.1	234.8
85°	67.4	93.0	125.5	139.5	137.1
87.5°	30.2	37.2	46.5	51.1	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)