

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: P390861

Luminaire Tested: **22CZ2-95VHE-RDP-UNV-L930-CD1-SDWPD1-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: P390861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-95VHE-RDP-UNV-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5203.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

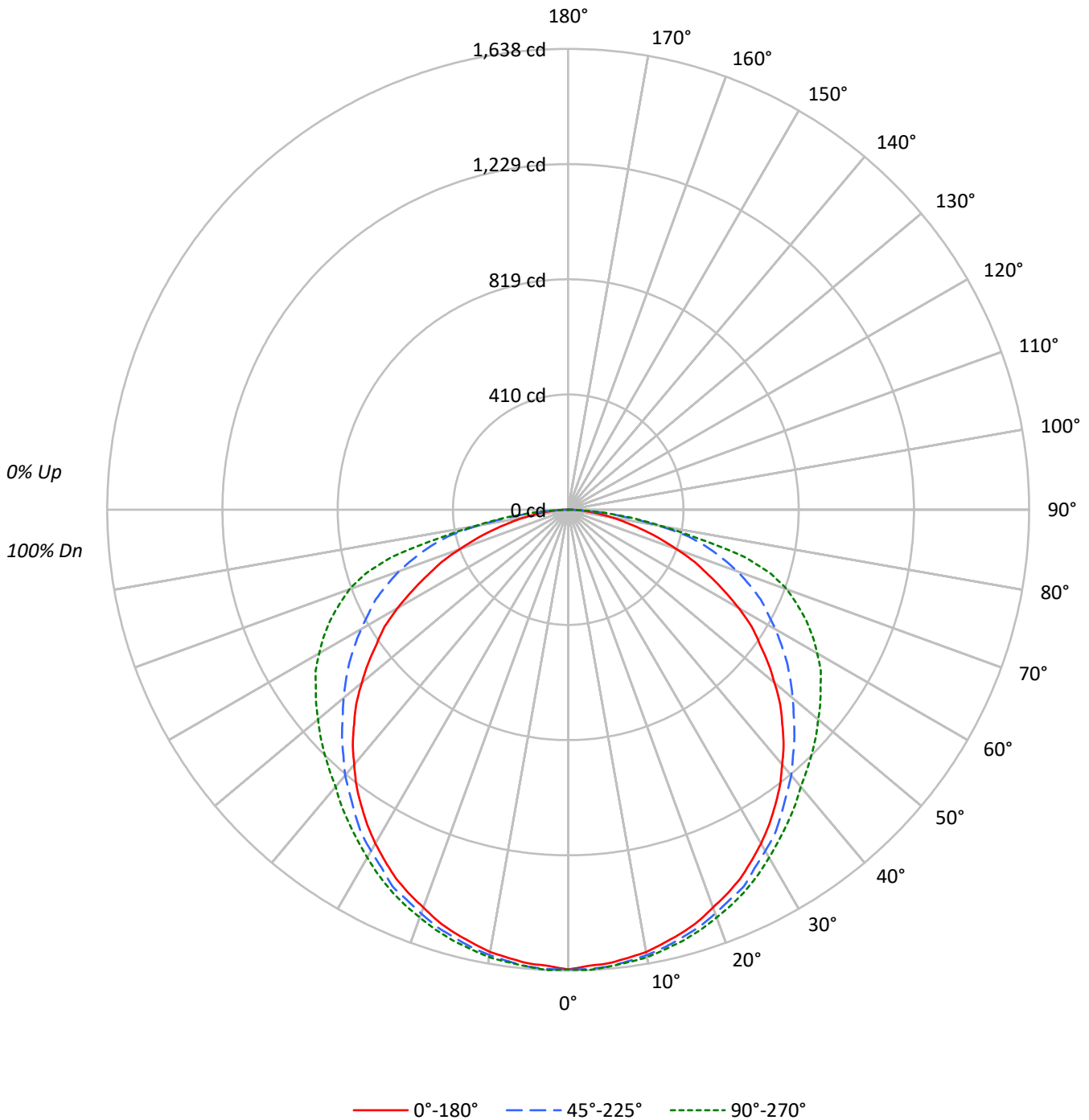
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4398	4398	4398
5°	4373	4404	4404
10°	4361	4393	4414
15°	4340	4383	4415
20°	4308	4373	4417
25°	4296	4387	4432
30°	4258	4353	4436
35°	4212	4338	4464
40°	4155	4330	4517
45°	4093	4326	4661
50°	4006	4358	4855
55°	3897	4453	5136
60°	3770	4573	5500
65°	3510	4801	5947
70°	3222	5029	6504
75°	2826	5293	6726
80°	2431	5041	5278
85°	2127	3665	4017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.0
10°-20°	443.9	8.5
20°-30°	677.2	13.0
30°-40°	826.9	15.9
40°-50°	884.2	17.0
50°-60°	853.4	16.4
60°-70°	734.6	14.1
70°-80°	497.0	9.6
80°-90°	131.2	2.5
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°	1275.7	24.5
0°-40°	2102.6	40.4
0°-60°	3840.2	73.8
0°-90°	5203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1619	1623	1630	1630	1630	154
15°	1558	1562	1573	1581	1585	439
25°	1447	1454	1477	1485	1493	666
35°	1282	1294	1320	1347	1359	802
45°	1076	1095	1137	1194	1225	830
55°	831	857	949	1045	1095	744
65°	551	605	754	873	934	548
75°	272	360	509	612	647	292
85°	69	96	119	122	130	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.4	1634.4	1634.4	1634.4	1634.4
2.5°	1622.9	1626.7	1634.4	1634.4	1638.2
5°	1619.0	1622.9	1630.5	1630.5	1630.5
7.5°	1607.6	1611.4	1619.0	1622.9	1622.9
10°	1596.1	1599.9	1607.6	1611.4	1615.2
12.5°	1576.9	1580.8	1592.3	1599.9	1599.9
15°	1557.8	1561.6	1573.1	1580.8	1584.6
17.5°	1534.8	1542.5	1554.0	1561.6	1565.5
20°	1504.2	1511.9	1527.2	1538.7	1542.5
22.5°	1477.4	1485.1	1500.4	1511.9	1519.5
25°	1446.8	1454.5	1477.4	1485.1	1492.7
27.5°	1408.5	1416.2	1435.3	1450.6	1462.1
30°	1370.3	1377.9	1400.9	1420.0	1427.7
32.5°	1328.2	1339.6	1366.4	1381.7	1393.2
35°	1282.2	1293.7	1320.5	1347.3	1358.8
37.5°	1236.3	1247.8	1274.6	1309.0	1324.3
40°	1182.7	1198.0	1232.5	1278.4	1286.0
42.5°	1132.9	1152.1	1182.7	1236.3	1255.4
45°	1075.5	1094.7	1136.8	1194.2	1224.8
47.5°	1021.9	1041.1	1087.0	1155.9	1194.2
50°	956.9	983.7	1041.1	1121.5	1159.7
52.5°	895.6	918.6	995.2	1083.2	1129.1
55°	830.6	857.4	949.2	1044.9	1094.7
57.5°	773.2	796.1	899.5	1006.6	1064.1
60°	700.4	731.1	849.7	964.5	1021.9
62.5°	623.9	669.8	800.0	918.6	979.8
65°	551.2	604.7	754.0	872.7	933.9
67.5°	486.1	543.5	696.6	822.9	880.3
70°	409.5	482.3	639.2	761.7	826.7
72.5°	340.6	421.0	574.1	696.6	754.0
75°	271.8	359.8	509.1	612.4	646.9
77.5°	210.5	294.7	436.3	467.0	470.8
80°	156.9	233.5	325.3	329.2	340.6
82.5°	107.2	164.6	210.5	229.7	233.5
85°	68.9	95.7	118.7	122.5	130.1
87.5°	30.6	34.4	42.1	38.3	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)