

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: P390862

Luminaire Tested: **22CZ2-95VHE-RDP-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: P390862
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-SWPD1-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: 5266.6 lumens
Efficiency: N/A
Efficacy: 72.4 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

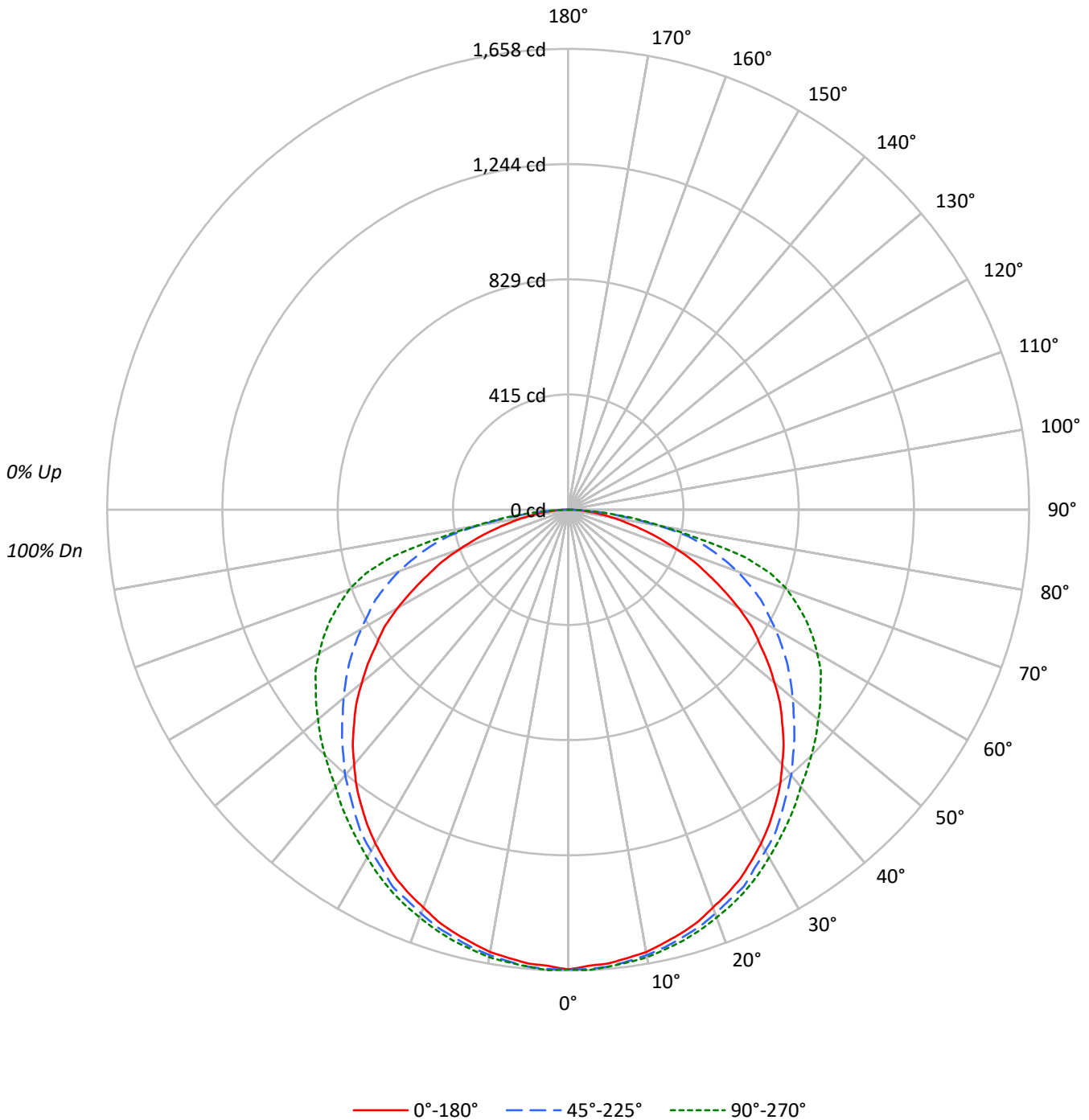
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4452	4452	4452
5°	4427	4458	4458
10°	4415	4446	4468
15°	4393	4436	4469
20°	4360	4427	4471
25°	4348	4440	4486
30°	4310	4406	4490
35°	4264	4391	4518
40°	4206	4382	4573
45°	4143	4379	4718
50°	4055	4412	4914
55°	3944	4508	5199
60°	3816	4629	5567
65°	3552	4860	6019
70°	3262	5091	6585
75°	2860	5358	6808
80°	2461	5103	5343
85°	2152	3708	4066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.0
10°-20°	449.3	8.5
20°-30°	685.5	13.0
30°-40°	837.0	15.9
40°-50°	895.0	17.0
50°-60°	863.8	16.4
60°-70°	743.6	14.1
70°-80°	503.1	9.6
80°-90°	132.8	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°	1291.3	24.5
0°-40°	2128.3	40.4
0°-60°	3887.1	73.8
0°-90°	5266.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1639	1643	1650	1650	1650	156
15°	1577	1581	1592	1600	1604	445
25°	1464	1472	1496	1503	1511	674
35°	1298	1310	1337	1364	1375	812
45°	1089	1108	1151	1209	1240	840
55°	841	868	961	1058	1108	753
65°	558	612	763	883	945	555
75°	275	364	515	620	655	295
85°	70	97	120	124	132	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.3	1654.3	1654.3	1654.3	1654.3
2.5°	1642.7	1646.6	1654.3	1654.3	1658.2
5°	1638.8	1642.7	1650.5	1650.5	1650.5
7.5°	1627.2	1631.1	1638.8	1642.7	1642.7
10°	1615.6	1619.5	1627.2	1631.1	1635.0
12.5°	1596.2	1600.1	1611.7	1619.5	1619.5
15°	1576.8	1580.7	1592.3	1600.1	1604.0
17.5°	1553.6	1561.3	1573.0	1580.7	1584.6
20°	1522.6	1530.4	1545.9	1557.5	1561.3
22.5°	1495.5	1503.2	1518.7	1530.4	1538.1
25°	1464.5	1472.2	1495.5	1503.2	1511.0
27.5°	1425.7	1433.5	1452.9	1468.4	1480.0
30°	1387.0	1394.8	1418.0	1437.4	1445.1
32.5°	1344.4	1356.0	1383.1	1398.6	1410.2
35°	1297.9	1309.5	1336.6	1363.8	1375.4
37.5°	1251.4	1263.0	1290.1	1325.0	1340.5
40°	1197.2	1212.7	1247.5	1294.0	1301.8
42.5°	1146.8	1166.2	1197.2	1251.4	1270.8
45°	1088.7	1108.1	1150.7	1208.8	1239.8
47.5°	1034.4	1053.8	1100.3	1170.0	1208.8
50°	968.6	995.7	1053.8	1135.2	1173.9
52.5°	906.6	929.8	1007.3	1096.4	1142.9
55°	840.7	867.8	960.8	1057.7	1108.1
57.5°	782.6	805.9	910.5	1018.9	1077.1
60°	709.0	740.0	860.1	976.3	1034.4
62.5°	631.5	678.0	809.7	929.8	991.8
65°	557.9	612.1	763.2	883.3	945.3
67.5°	492.0	550.2	705.1	833.0	891.1
70°	414.6	488.2	647.0	771.0	836.9
72.5°	344.8	426.2	581.1	705.1	763.2
75°	275.1	364.2	515.3	619.9	654.8
77.5°	213.1	298.3	441.7	472.7	476.5
80°	158.8	236.3	329.3	333.2	344.8
82.5°	108.5	166.6	213.1	232.5	236.3
85°	69.7	96.9	120.1	124.0	131.7
87.5°	31.0	34.9	42.6	38.7	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)