

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: P388917

Luminaire Tested: **24CZ2-65VHE-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: P388917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-UNV-L930-CD1-SDWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5284.9 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

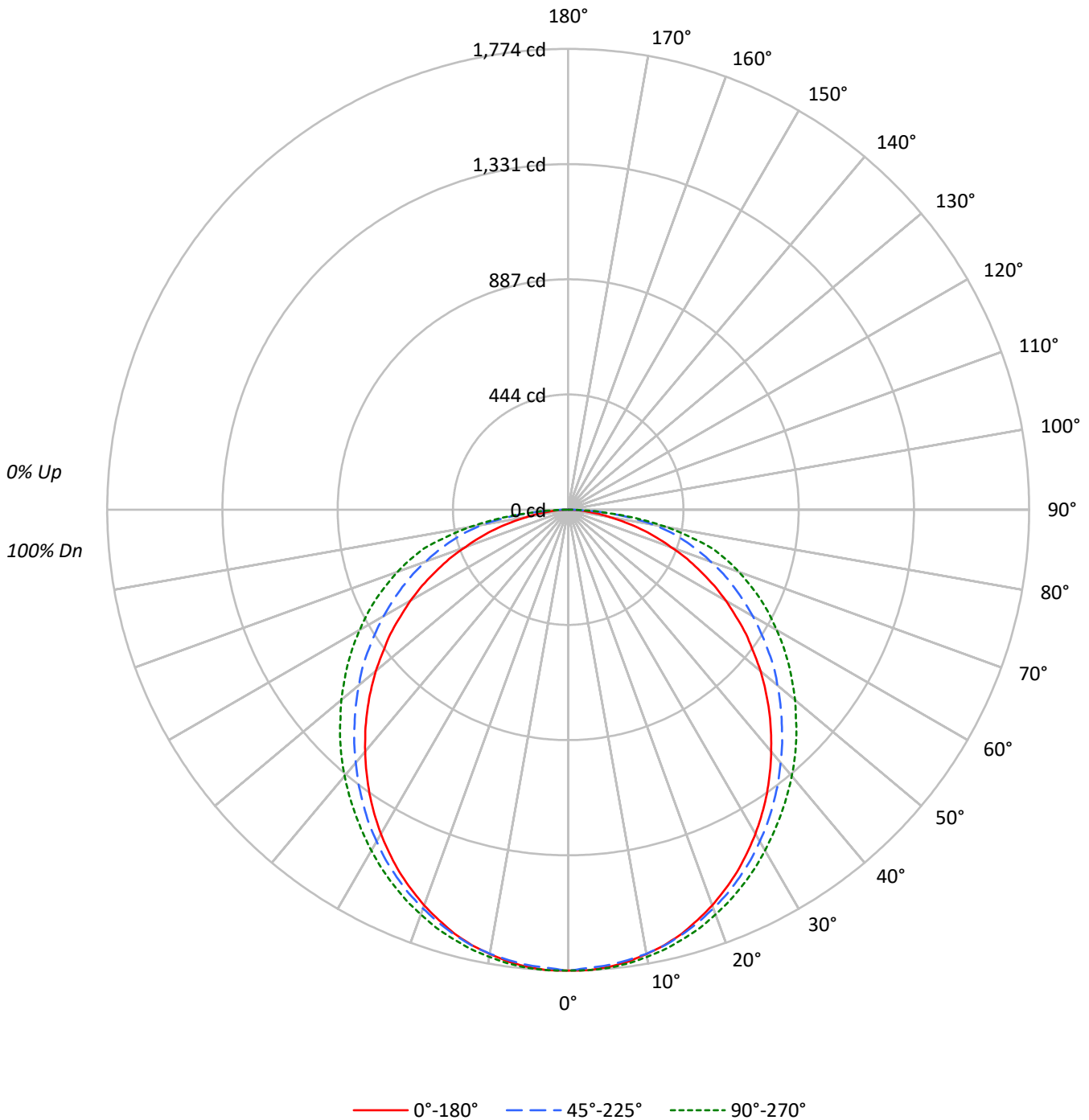
Input Watts (W): 42.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2387	2387	2387
5°	2387	2378	2392
10°	2374	2371	2388
15°	2354	2359	2383
20°	2321	2339	2374
25°	2283	2317	2364
30°	2239	2291	2354
35°	2190	2263	2347
40°	2135	2234	2351
45°	2081	2212	2363
50°	2023	2200	2385
55°	1961	2197	2429
60°	1884	2207	2492
65°	1786	2241	2600
70°	1658	2297	2748
75°	1513	2412	2980
80°	1244	2596	2979
85°	953	2396	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.2
10°-20°	479.1	9.1
20°-30°	721.0	13.6
30°-40°	864.0	16.3
40°-50°	900.4	17.0
50°-60°	837.7	15.9
60°-70°	689.9	13.1
70°-80°	469.9	8.9
80°-90°	155.1	2.9
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°	1367.9	25.9
0°-40°	2231.9	42.2
0°-60°	3969.9	75.1
0°-90°	5284.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5284.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1767	1767	1760	1769	1771	168
15°	1690	1692	1693	1709	1711	476
25°	1538	1545	1561	1587	1593	708
35°	1333	1349	1378	1415	1429	834
45°	1094	1116	1162	1221	1242	843
55°	836	864	937	1011	1035	745
65°	561	608	704	787	817	557
75°	291	356	464	547	573	307
85°	62	120	155	166	166	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.4	1774.4	1774.4	1774.4	1774.4
2.5°	1774.4	1774.4	1765.6	1774.4	1774.4
5°	1767.3	1767.3	1760.3	1769.1	1770.9
7.5°	1755.0	1756.7	1749.7	1760.3	1762.0
10°	1737.3	1739.1	1735.6	1746.2	1747.9
12.5°	1716.2	1717.9	1717.9	1730.3	1732.1
15°	1689.7	1691.5	1693.3	1709.1	1710.9
17.5°	1656.2	1661.5	1665.0	1684.4	1688.0
20°	1620.9	1626.2	1633.3	1654.4	1658.0
22.5°	1580.4	1587.4	1599.8	1622.7	1628.0
25°	1538.0	1545.1	1561.0	1587.4	1592.7
27.5°	1490.4	1501.0	1520.4	1548.6	1555.7
30°	1441.0	1451.6	1474.5	1504.5	1515.1
32.5°	1388.1	1402.2	1428.7	1462.2	1472.8
35°	1333.4	1349.3	1377.5	1414.6	1428.7
37.5°	1275.2	1292.9	1326.4	1366.9	1384.6
40°	1215.3	1236.4	1271.7	1319.3	1338.7
42.5°	1155.3	1174.7	1218.8	1269.9	1291.1
45°	1093.6	1116.5	1162.3	1220.6	1241.7
47.5°	1030.1	1053.0	1107.7	1169.4	1188.8
50°	966.6	989.5	1051.2	1116.5	1139.4
52.5°	897.8	927.8	998.3	1063.6	1086.5
55°	836.0	864.3	936.6	1010.7	1035.4
57.5°	765.5	799.0	878.4	956.0	982.4
60°	700.2	735.5	820.2	899.5	926.0
62.5°	633.2	672.0	762.0	843.1	873.1
65°	560.9	608.5	703.8	786.7	816.6
67.5°	495.6	545.0	645.6	730.2	756.7
70°	421.5	481.5	583.8	668.5	698.5
72.5°	358.1	418.0	525.6	608.5	638.5
75°	291.0	356.3	463.9	546.8	573.2
77.5°	224.0	296.3	403.9	467.4	476.2
80°	160.5	236.3	335.1	372.2	384.5
82.5°	112.9	181.7	246.9	271.6	278.7
85°	61.7	119.9	155.2	165.8	165.8
87.5°	26.5	51.2	61.7	63.5	65.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)