

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: P388418

Luminaire Tested: **22CZ2-65VHE-UNV-L935-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: P388418
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: 22CZ2-65VHE-UNV-L935-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

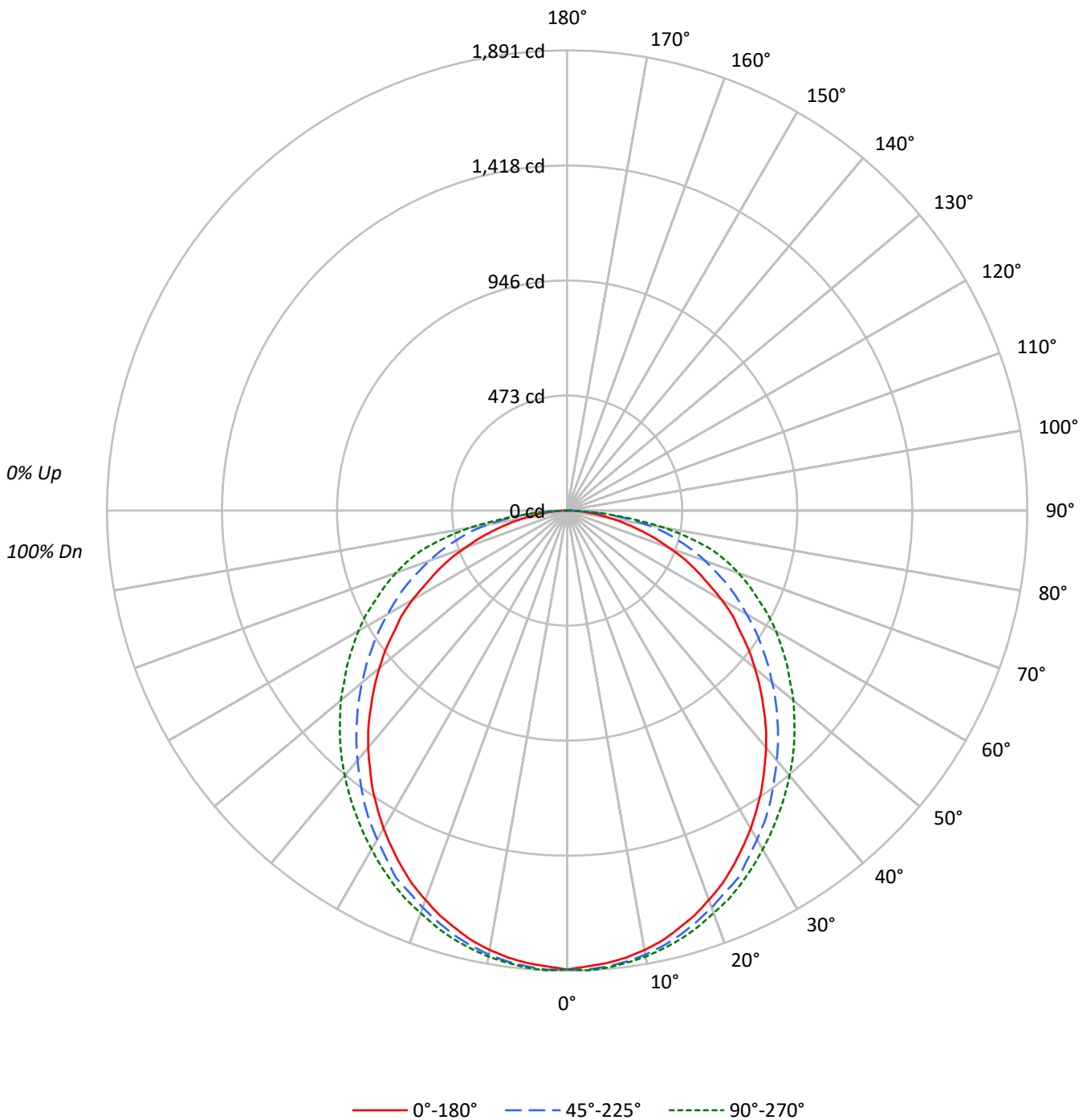
Lumens per Lamp: N/A
Luminaire Lumens: 5545.5 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.9
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°	5074	5074	5074
5°	5042	5079	5093
10°	5011	5063	5085
15°	4949	5025	5071
20°	4876	4970	5040
25°	4788	4942	5023
30°	4689	4850	4994
35°	4581	4787	4984
40°	4467	4706	4994
45°	4341	4652	5026
50°	4215	4604	5084
55°	4071	4583	5172
60°	3950	4582	5331
65°	3753	4656	5525
70°	3500	4745	5883
75°	3205	4908	6355
80°	2791	5117	6259
85°	2442	4551	4971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	3.2
10°-20°	507.9	9.2
20°-30°	762.5	13.7
30°-40°	911.1	16.4
40°-50°	947.4	17.1
50°-60°	878.1	15.8
60°-70°	720.3	13.0
70°-80°	486.9	8.8
80°-90°	153.0	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°	1448.7	26.1
0°-40°	2359.8	42.6
0°-60°	4185.3	75.5
0°-90°	5545.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5545.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1866	1869	1880	1883	1886	177
15°	1776	1785	1804	1815	1820	501
25°	1613	1626	1664	1684	1692	743
35°	1394	1414	1457	1501	1517	872
45°	1141	1162	1222	1293	1321	881
55°	868	895	977	1064	1102	780
65°	589	622	731	827	868	583
75°	308	360	472	568	611	327
85°	79	109	147	164	161	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.6	1885.6	1885.6	1885.6	1885.6
2.5°	1874.7	1880.1	1888.3	1891.0	1891.0
5°	1866.5	1869.2	1880.1	1882.8	1885.6
7.5°	1852.8	1858.3	1869.2	1871.9	1874.7
10°	1833.7	1839.2	1852.8	1858.3	1861.0
12.5°	1809.2	1814.6	1831.0	1839.2	1841.9
15°	1776.4	1784.6	1803.7	1814.6	1820.1
17.5°	1743.7	1751.9	1771.0	1787.3	1792.8
20°	1702.7	1721.8	1735.5	1757.3	1760.0
22.5°	1661.8	1672.7	1697.3	1719.1	1730.0
25°	1612.7	1626.3	1664.5	1683.6	1691.8
27.5°	1560.8	1580.0	1610.0	1640.0	1650.9
30°	1509.0	1522.6	1560.8	1596.3	1607.2
32.5°	1451.7	1470.8	1511.7	1547.2	1563.6
35°	1394.4	1413.5	1457.2	1500.8	1517.2
37.5°	1331.6	1353.5	1397.1	1449.0	1470.8
40°	1271.6	1288.0	1339.8	1402.6	1421.7
42.5°	1208.8	1227.9	1282.5	1350.7	1372.6
45°	1140.6	1162.5	1222.5	1293.4	1320.7
47.5°	1075.1	1097.0	1162.5	1233.4	1266.1
50°	1006.9	1034.2	1099.7	1181.6	1214.3
52.5°	941.4	966.0	1039.7	1124.2	1154.3
55°	867.7	895.0	976.9	1064.2	1102.4
57.5°	807.7	826.8	916.9	1006.9	1045.1
60°	734.0	758.6	851.4	946.9	990.5
62.5°	654.9	695.8	791.3	889.6	933.2
65°	589.4	622.2	731.3	826.8	867.7
67.5°	521.2	556.7	663.1	764.1	810.4
70°	444.8	491.2	603.1	704.0	747.7
72.5°	376.6	425.7	540.3	638.5	684.9
75°	308.3	360.2	472.1	567.6	611.2
77.5°	242.9	300.2	409.3	483.0	510.3
80°	180.1	234.7	330.2	382.0	403.9
82.5°	125.5	171.9	242.9	270.1	275.6
85°	79.1	109.2	147.4	163.7	161.0
87.5°	35.5	43.7	54.6	60.0	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)