

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: P390840

Luminaire Tested: **22CZ2-95VHE-HRP-UNV-L935-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: P390840  
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-HRP-UNV-L935-CD1-SDWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND HRP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

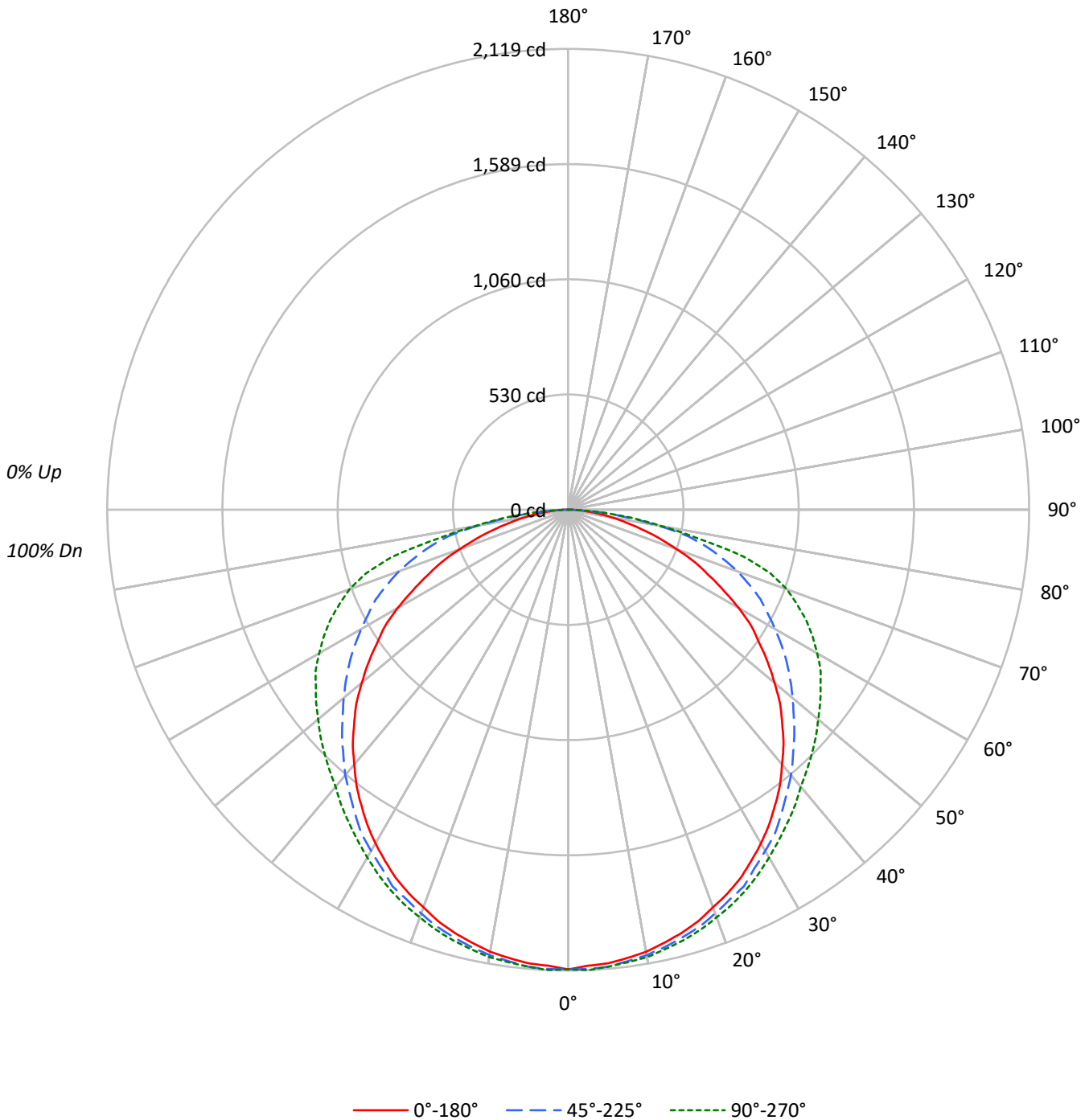
Lumens per Lamp: N/A  
Luminaire Lumens: 6729.1 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	5688	5688	5688
5°	5656	5696	5696
10°	5640	5681	5708
15°	5613	5668	5709
20°	5571	5656	5713
25°	5556	5673	5732
30°	5507	5630	5737
35°	5448	5610	5773
40°	5373	5599	5843
45°	5294	5595	6028
50°	5181	5637	6279
55°	5040	5759	6642
60°	4876	5914	7113
65°	4539	6209	7691
70°	4168	6504	8412
75°	3655	6845	8698
80°	3146	6521	6828
85°	2751	4739	5196



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.9	3.0
10°-20°	574.1	8.5
20°-30°	875.9	13.0
30°-40°	1069.5	15.9
40°-50°	1143.5	17.0
50°-60°	1103.7	16.4
60°-70°	950.1	14.1
70°-80°	642.8	9.6
80°-90°	169.6	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°	1649.9	24.5
0°-40°	2719.4	40.4
0°-60°	4966.6	73.8
0°-90°	6729.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6729.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2114	2114	2114	2114	2114	
5°	2094	2099	2109	2109	2109	199
15°	2015	2020	2034	2044	2049	568
25°	1871	1881	1911	1921	1931	861
35°	1658	1673	1708	1742	1757	1038
45°	1391	1416	1470	1544	1584	1074
55°	1074	1109	1228	1351	1416	963
65°	713	782	975	1129	1208	709
75°	352	465	658	792	837	377
85°	89	124	154	158	168	100
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2113.7	2113.7	2113.7	2113.7	2113.7
2.5°	2098.9	2103.8	2113.7	2113.7	2118.7
5°	2093.9	2098.9	2108.8	2108.8	2108.8
7.5°	2079.1	2084.0	2093.9	2098.9	2098.9
10°	2064.2	2069.2	2079.1	2084.0	2089.0
12.5°	2039.5	2044.4	2059.3	2069.2	2069.2
15°	2014.7	2019.7	2034.5	2044.4	2049.4
17.5°	1985.0	1994.9	2009.8	2019.7	2024.6
20°	1945.4	1955.3	1975.1	1990.0	1994.9
22.5°	1910.8	1920.7	1940.5	1955.3	1965.2
25°	1871.2	1881.1	1910.8	1920.7	1930.6
27.5°	1821.7	1831.6	1856.3	1876.1	1891.0
30°	1772.2	1782.1	1811.8	1836.5	1846.4
32.5°	1717.7	1732.6	1767.2	1787.0	1801.9
35°	1658.3	1673.2	1707.8	1742.5	1757.3
37.5°	1598.9	1613.8	1648.4	1693.0	1712.8
40°	1529.6	1549.4	1594.0	1653.4	1663.3
42.5°	1465.3	1490.0	1529.6	1598.9	1623.7
45°	1391.0	1415.8	1470.2	1544.5	1584.1
47.5°	1321.7	1346.4	1405.9	1495.0	1544.5
50°	1237.5	1272.2	1346.4	1450.4	1499.9
52.5°	1158.3	1188.0	1287.0	1400.9	1460.3
55°	1074.2	1108.8	1227.6	1351.4	1415.8
57.5°	999.9	1029.6	1163.3	1301.9	1376.2
60°	905.9	945.5	1098.9	1247.4	1321.7
62.5°	806.9	866.3	1034.6	1188.0	1267.2
65°	712.8	782.1	975.2	1128.6	1207.8
67.5°	628.7	702.9	900.9	1064.3	1138.5
70°	529.7	623.7	826.7	985.1	1069.2
72.5°	440.6	544.5	742.5	900.9	975.2
75°	351.5	465.3	658.4	792.0	836.6
77.5°	272.3	381.2	564.3	603.9	608.9
80°	203.0	302.0	420.8	425.7	440.6
82.5°	138.6	212.9	272.3	297.0	302.0
85°	89.1	123.8	153.5	158.4	168.3
87.5°	39.6	44.6	54.5	49.5	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)