

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: P390847

Luminaire Tested: **22CZ2-95VHE-HRP-UNV-L950-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: P390847  
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-L950-CD1-SWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND HRP LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

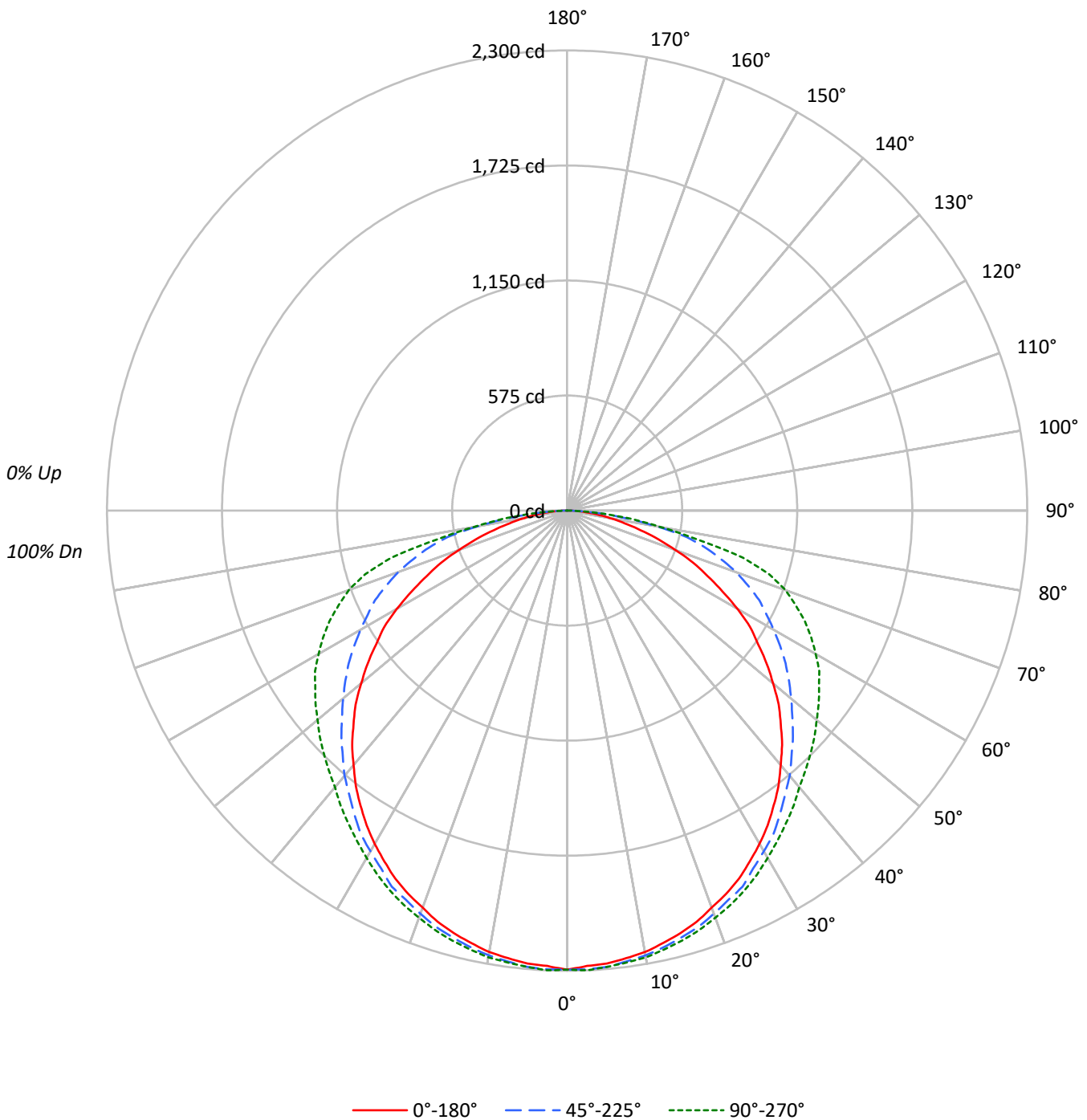
Lumens per Lamp: N/A  
Luminaire Lumens: 7304.5 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	6174	6174	6174
5°	6140	6183	6183
10°	6123	6167	6196
15°	6093	6153	6198
20°	6048	6140	6201
25°	6031	6159	6222
30°	5977	6111	6228
35°	5913	6090	6267
40°	5833	6078	6342
45°	5746	6073	6544
50°	5624	6119	6816
55°	5470	6252	7210
60°	5292	6420	7721
65°	4927	6741	8348
70°	4524	7061	9132
75°	3967	7431	9442
80°	3414	7077	7411
85°	2986	5144	5641



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.0	3.0
10°-20°	623.2	8.5
20°-30°	950.8	13.0
30°-40°	1160.9	15.9
40°-50°	1241.3	17.0
50°-60°	1198.1	16.4
60°-70°	1031.4	14.1
70°-80°	697.8	9.6
80°-90°	184.1	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°	1791.0	24.5
0°-40°	2951.9	40.4
0°-60°	5391.2	73.8
0°-90°	7304.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7304.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2294	2294	2294	2294	2294	
5°	2273	2278	2289	2289	2289	216
15°	2187	2192	2208	2219	2225	617
25°	2031	2042	2074	2085	2096	935
35°	1800	1816	1854	1892	1908	1126
45°	1510	1537	1596	1676	1720	1166
55°	1166	1204	1333	1467	1537	1045
65°	774	849	1059	1225	1311	770
75°	382	505	715	860	908	409
85°	97	134	167	172	183	109
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2294.5	2294.5	2294.5	2294.5	2294.5
2.5°	2278.4	2283.7	2294.5	2294.5	2299.8
5°	2273.0	2278.4	2289.1	2289.1	2289.1
7.5°	2256.9	2262.2	2273.0	2278.4	2278.4
10°	2240.7	2246.1	2256.9	2262.2	2267.6
12.5°	2213.9	2219.2	2235.4	2246.1	2246.1
15°	2187.0	2192.4	2208.5	2219.2	2224.6
17.5°	2154.8	2165.5	2181.6	2192.4	2197.7
20°	2111.8	2122.5	2144.0	2160.1	2165.5
22.5°	2074.2	2084.9	2106.4	2122.5	2133.3
25°	2031.2	2041.9	2074.2	2084.9	2095.7
27.5°	1977.4	1988.2	2015.1	2036.5	2052.7
30°	1923.7	1934.4	1966.7	1993.6	2004.3
32.5°	1864.6	1880.7	1918.3	1939.8	1955.9
35°	1800.1	1816.2	1853.8	1891.5	1907.6
37.5°	1735.6	1751.8	1789.4	1837.7	1859.2
40°	1660.4	1681.9	1730.3	1794.7	1805.5
42.5°	1590.5	1617.4	1660.4	1735.6	1762.5
45°	1509.9	1536.8	1595.9	1676.5	1719.5
47.5°	1434.7	1461.6	1526.1	1622.8	1676.5
50°	1343.4	1381.0	1461.6	1574.4	1628.2
52.5°	1257.4	1289.6	1397.1	1520.7	1585.2
55°	1166.0	1203.7	1332.6	1467.0	1536.8
57.5°	1085.4	1117.7	1262.8	1413.2	1493.8
60°	983.3	1026.3	1192.9	1354.1	1434.7
62.5°	875.9	940.4	1123.1	1289.6	1375.6
65°	773.8	849.0	1058.6	1225.2	1311.1
67.5°	682.4	763.0	978.0	1155.3	1235.9
70°	575.0	677.1	897.4	1069.3	1160.7
72.5°	478.2	591.1	806.0	978.0	1058.6
75°	381.5	505.1	714.7	859.8	908.1
77.5°	295.5	413.8	612.6	655.6	660.9
80°	220.3	327.8	456.7	462.1	478.2
82.5°	150.5	231.1	295.5	322.4	327.8
85°	96.7	134.3	166.6	172.0	182.7
87.5°	43.0	48.4	59.1	53.7	53.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)