

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: P390846

Luminaire Tested: **22CZ2-95VHE-HRP-UNV-L950-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: P390846
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-SDWPD1-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: 7216.4 lumens
Efficiency: N/A
Efficacy: 99.3 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

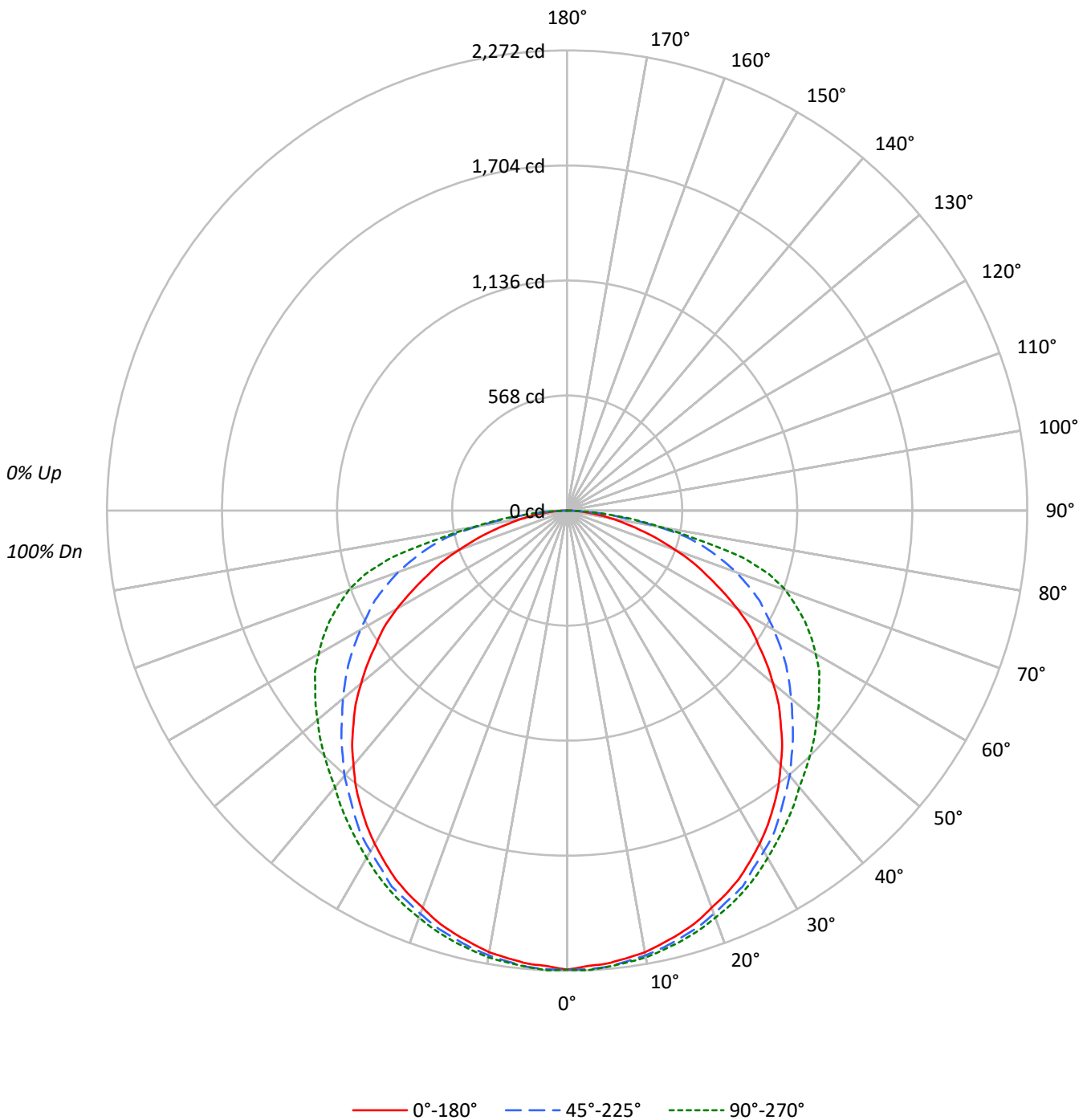
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6100	6100	6100
5°	6066	6109	6109
10°	6049	6092	6122
15°	6019	6079	6123
20°	5974	6066	6127
25°	5958	6084	6147
30°	5905	6037	6153
35°	5842	6017	6191
40°	5762	6005	6266
45°	5677	6000	6465
50°	5556	6045	6734
55°	5405	6176	7123
60°	5229	6343	7628
65°	4867	6659	8248
70°	4469	6975	9022
75°	3919	7341	9328
80°	3374	6992	7322
85°	2952	5082	5573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.0
10°-20°	615.7	8.5
20°-30°	939.3	13.0
30°-40°	1146.9	15.9
40°-50°	1226.3	17.0
50°-60°	1183.7	16.4
60°-70°	1018.9	14.1
70°-80°	689.4	9.6
80°-90°	181.9	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°	1769.4	24.5
0°-40°	2916.3	40.4
0°-60°	5326.2	73.8
0°-90°	7216.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7216.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2267	2267	2267	2267	2267	
5°	2246	2251	2262	2262	2262	213
15°	2161	2166	2182	2192	2198	610
25°	2007	2017	2049	2060	2070	924
35°	1778	1794	1832	1869	1885	1113
45°	1492	1518	1577	1656	1699	1151
55°	1152	1189	1316	1449	1518	1032
65°	764	839	1046	1210	1295	760
75°	377	499	706	849	897	404
85°	96	133	165	170	180	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2266.8	2266.8	2266.8	2266.8	2266.8
2.5°	2250.9	2256.2	2266.8	2266.8	2272.1
5°	2245.6	2250.9	2261.5	2261.5	2261.5
7.5°	2229.6	2234.9	2245.6	2250.9	2250.9
10°	2213.7	2219.0	2229.6	2234.9	2240.3
12.5°	2187.2	2192.5	2208.4	2219.0	2219.0
15°	2160.6	2165.9	2181.9	2192.5	2197.8
17.5°	2128.8	2139.4	2155.3	2165.9	2171.2
20°	2086.3	2096.9	2118.2	2134.1	2139.4
22.5°	2049.1	2059.8	2081.0	2096.9	2107.5
25°	2006.7	2017.3	2049.1	2059.8	2070.4
27.5°	1953.6	1964.2	1990.7	2012.0	2027.9
30°	1900.5	1911.1	1943.0	1969.5	1980.1
32.5°	1842.1	1858.0	1895.2	1916.4	1932.4
35°	1778.4	1794.3	1831.5	1868.6	1884.6
37.5°	1714.7	1730.6	1767.8	1815.6	1836.8
40°	1640.4	1661.6	1709.4	1773.1	1783.7
42.5°	1571.4	1597.9	1640.4	1714.7	1741.2
45°	1491.7	1518.3	1576.7	1656.3	1698.8
47.5°	1417.4	1444.0	1507.7	1603.2	1656.3
50°	1327.2	1364.3	1444.0	1555.4	1608.5
52.5°	1242.2	1274.1	1380.3	1502.4	1566.1
55°	1152.0	1189.1	1316.5	1449.3	1518.3
57.5°	1072.3	1104.2	1247.5	1396.2	1475.8
60°	971.5	1014.0	1178.5	1337.8	1417.4
62.5°	865.3	929.0	1109.5	1274.1	1359.0
65°	764.4	838.8	1045.8	1210.4	1295.3
67.5°	674.2	753.8	966.2	1141.4	1221.0
70°	568.0	668.9	886.5	1056.4	1146.7
72.5°	472.5	584.0	796.3	966.2	1045.8
75°	376.9	499.0	706.1	849.4	897.2
77.5°	292.0	408.8	605.2	647.7	653.0
80°	217.7	323.8	451.2	456.5	472.5
82.5°	148.6	228.3	292.0	318.5	323.8
85°	95.6	132.7	164.6	169.9	180.5
87.5°	42.5	47.8	58.4	53.1	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)