

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: P390843

Luminaire Tested: **22CZ2-95VHE-HRP-UNV-L940-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: P390843
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-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6798.7 lumens
Efficiency: N/A
Efficacy: 93.5 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

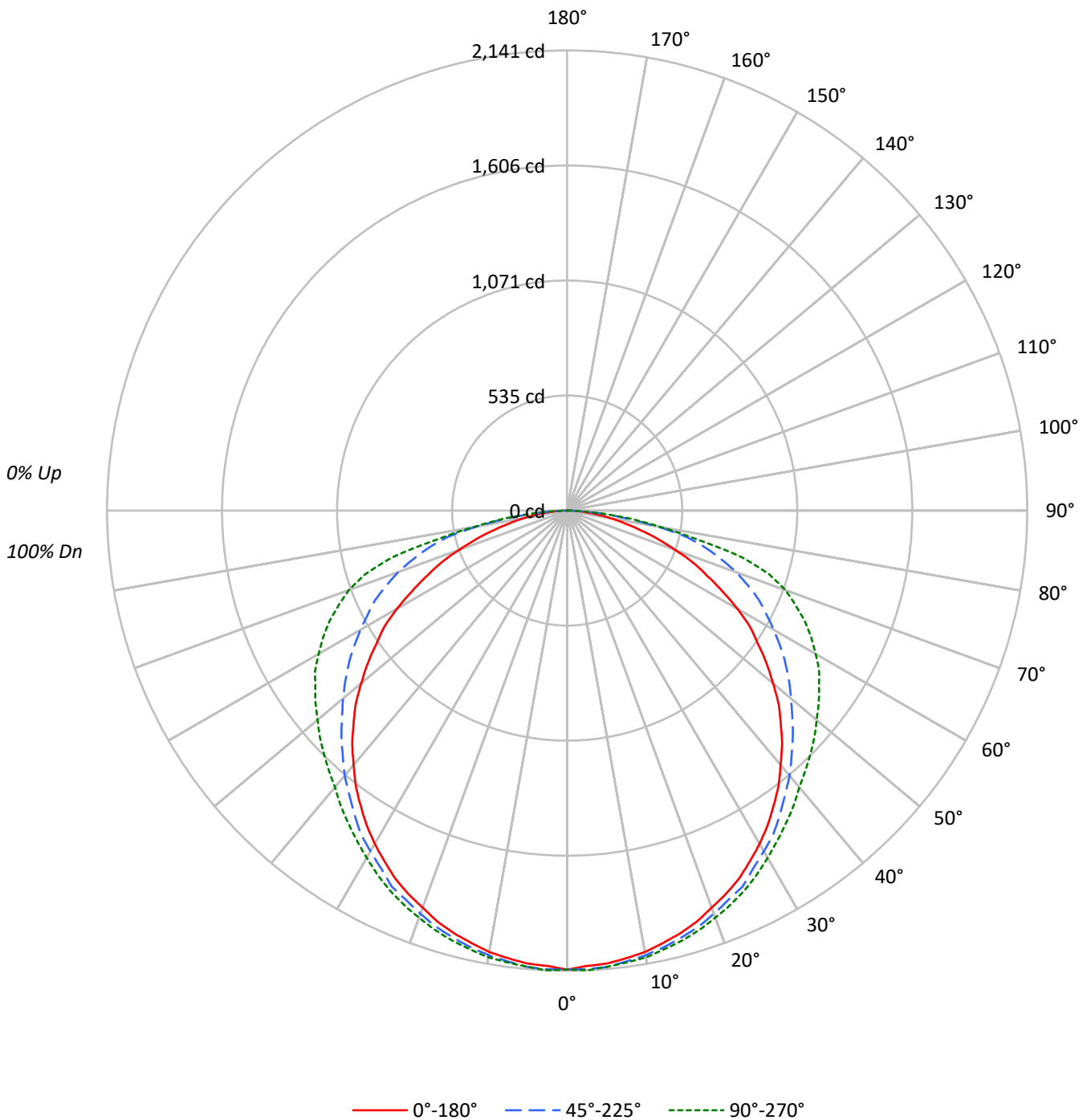
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5747	5747	5747
5°	5715	5755	5755
10°	5699	5740	5767
15°	5671	5727	5768
20°	5629	5715	5772
25°	5613	5732	5791
30°	5564	5688	5797
35°	5504	5668	5833
40°	5429	5657	5903
45°	5348	5653	6091
50°	5234	5695	6344
55°	5092	5819	6711
60°	4926	5976	7187
65°	4586	6274	7770
70°	4210	6571	8500
75°	3692	6916	8788
80°	3178	6588	6898
85°	2779	4786	5249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	3.0
10°-20°	580.0	8.5
20°-30°	884.9	13.0
30°-40°	1080.5	15.9
40°-50°	1155.3	17.0
50°-60°	1115.1	16.4
60°-70°	959.9	14.1
70°-80°	649.5	9.6
80°-90°	171.4	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°	1667.0	24.5
0°-40°	2747.5	40.4
0°-60°	5017.9	73.8
0°-90°	6798.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6798.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2116	2121	2131	2131	2131	201
15°	2036	2041	2056	2066	2071	574
25°	1890	1900	1930	1940	1950	870
35°	1676	1690	1726	1760	1776	1048
45°	1405	1430	1485	1560	1600	1085
55°	1085	1120	1240	1365	1430	973
65°	720	790	985	1140	1220	716
75°	355	470	665	800	845	381
85°	90	125	155	160	170	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.6	2135.6	2135.6	2135.6	2135.6
2.5°	2120.6	2125.6	2135.6	2135.6	2140.6
5°	2115.6	2120.6	2130.6	2130.6	2130.6
7.5°	2100.6	2105.6	2115.6	2120.6	2120.6
10°	2085.6	2090.6	2100.6	2105.6	2110.6
12.5°	2060.6	2065.6	2080.6	2090.6	2090.6
15°	2035.6	2040.6	2055.6	2065.6	2070.6
17.5°	2005.6	2015.6	2030.6	2040.6	2045.6
20°	1965.5	1975.5	1995.6	2010.6	2015.6
22.5°	1930.5	1940.5	1960.5	1975.5	1985.5
25°	1890.5	1900.5	1930.5	1940.5	1950.5
27.5°	1840.5	1850.5	1875.5	1895.5	1910.5
30°	1790.5	1800.5	1830.5	1855.5	1865.5
32.5°	1735.5	1750.5	1785.5	1805.5	1820.5
35°	1675.5	1690.5	1725.5	1760.5	1775.5
37.5°	1615.4	1630.5	1665.5	1710.5	1730.5
40°	1545.4	1565.4	1610.4	1670.5	1680.5
42.5°	1480.4	1505.4	1545.4	1615.4	1640.5
45°	1405.4	1430.4	1485.4	1560.4	1600.4
47.5°	1335.4	1360.4	1420.4	1510.4	1560.4
50°	1250.3	1285.4	1360.4	1465.4	1515.4
52.5°	1170.3	1200.3	1300.4	1415.4	1475.4
55°	1085.3	1120.3	1240.3	1365.4	1430.4
57.5°	1010.3	1040.3	1175.3	1315.4	1390.4
60°	915.3	955.3	1110.3	1260.3	1335.4
62.5°	815.2	875.2	1045.3	1200.3	1280.4
65°	720.2	790.2	985.3	1140.3	1220.3
67.5°	635.2	710.2	910.3	1075.3	1150.3
70°	535.1	630.2	835.2	995.3	1080.3
72.5°	445.1	550.2	750.2	910.3	985.3
75°	355.1	470.1	665.2	800.2	845.2
77.5°	275.1	385.1	570.2	610.2	615.2
80°	205.1	305.1	425.1	430.1	445.1
82.5°	140.0	215.1	275.1	300.1	305.1
85°	90.0	125.0	155.0	160.0	170.0
87.5°	40.0	45.0	55.0	50.0	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)