

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: P390056

Luminaire Tested: **22CZ2-100VHE-RDP-UNV-L950-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: P390056
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: 22CZ2-100VHE-RDP-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6164.0 lumens
Efficiency: N/A
Efficacy: 79.3 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

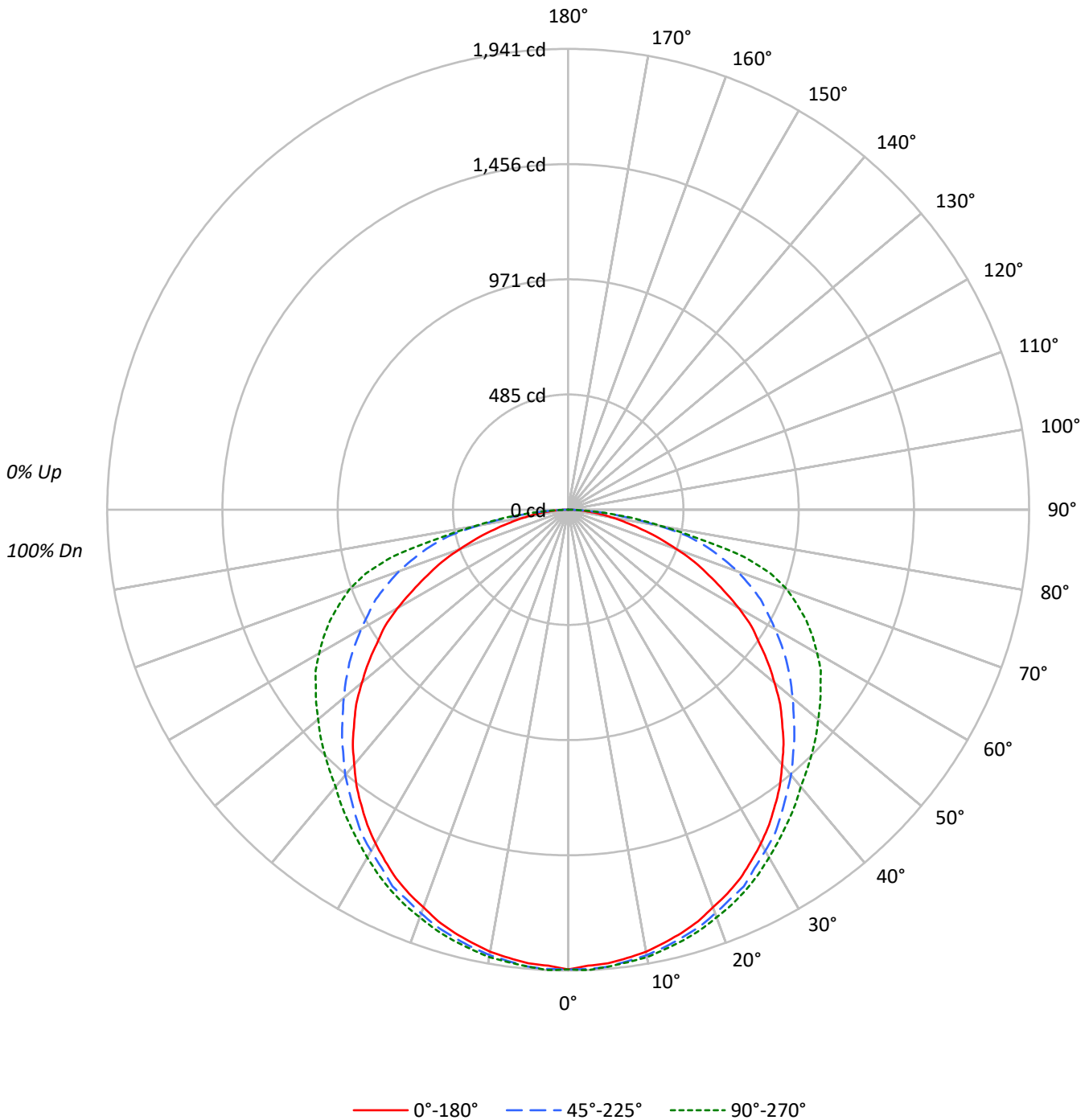
Input Watts (W): 77.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5210	5210	5210
5°	5181	5218	5218
10°	5167	5204	5229
15°	5141	5192	5230
20°	5103	5181	5233
25°	5089	5197	5251
30°	5044	5157	5256
35°	4990	5139	5288
40°	4922	5129	5352
45°	4849	5125	5522
50°	4746	5164	5752
55°	4617	5276	6085
60°	4466	5418	6516
65°	4158	5688	7045
70°	3818	5958	7706
75°	3347	6271	7967
80°	2881	5972	6254
85°	2519	4341	4761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.0
10°-20°	525.9	8.5
20°-30°	802.3	13.0
30°-40°	979.6	15.9
40°-50°	1047.5	17.0
50°-60°	1011.0	16.4
60°-70°	870.3	14.1
70°-80°	588.8	9.6
80°-90°	155.4	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°	1511.3	24.5
0°-40°	2491.0	40.4
0°-60°	4549.5	73.8
0°-90°	6164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1936	1936	1936	1936	1936	
5°	1918	1923	1932	1932	1932	182
15°	1846	1850	1864	1873	1877	521
25°	1714	1723	1750	1759	1768	789
35°	1519	1533	1564	1596	1610	950
45°	1274	1297	1347	1415	1451	984
55°	984	1016	1124	1238	1297	882
65°	653	716	893	1034	1106	649
75°	322	426	603	726	766	345
85°	82	113	141	145	154	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1936.2	1936.2	1936.2	1936.2	1936.2
2.5°	1922.6	1927.2	1936.2	1936.2	1940.8
5°	1918.1	1922.6	1931.7	1931.7	1931.7
7.5°	1904.5	1909.0	1918.1	1922.6	1922.6
10°	1890.9	1895.4	1904.5	1909.0	1913.5
12.5°	1868.2	1872.7	1886.3	1895.4	1895.4
15°	1845.5	1850.1	1863.7	1872.7	1877.3
17.5°	1818.3	1827.4	1841.0	1850.1	1854.6
20°	1782.0	1791.1	1809.3	1822.9	1827.4
22.5°	1750.3	1759.4	1777.5	1791.1	1800.2
25°	1714.0	1723.1	1750.3	1759.4	1768.4
27.5°	1668.7	1677.8	1700.4	1718.6	1732.2
30°	1623.3	1632.4	1659.6	1682.3	1691.4
32.5°	1573.5	1587.1	1618.8	1636.9	1650.5
35°	1519.0	1532.7	1564.4	1596.1	1609.7
37.5°	1464.6	1478.2	1510.0	1550.8	1568.9
40°	1401.2	1419.3	1460.1	1514.5	1523.6
42.5°	1342.2	1364.9	1401.2	1464.6	1487.3
45°	1274.2	1296.9	1346.7	1414.8	1451.0
47.5°	1210.7	1233.4	1287.8	1369.4	1414.8
50°	1133.6	1165.4	1233.4	1328.6	1373.9
52.5°	1061.1	1088.3	1179.0	1283.3	1337.7
55°	984.0	1015.7	1124.5	1237.9	1296.9
57.5°	916.0	943.2	1065.6	1192.6	1260.6
60°	829.8	866.1	1006.7	1142.7	1210.7
62.5°	739.1	793.5	947.7	1088.3	1160.8
65°	653.0	716.4	893.3	1033.9	1106.4
67.5°	575.9	643.9	825.3	974.9	1042.9
70°	485.2	571.3	757.3	902.4	979.4
72.5°	403.6	498.8	680.2	825.3	893.3
75°	321.9	426.2	603.1	725.5	766.3
77.5°	249.4	349.2	516.9	553.2	557.7
80°	185.9	276.6	385.4	390.0	403.6
82.5°	127.0	195.0	249.4	272.1	276.6
85°	81.6	113.4	140.6	145.1	154.2
87.5°	36.3	40.8	49.9	45.3	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)