

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: P390870

Luminaire Tested: **22CZ2-95VHE-RDP-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: P390870
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-RDP-UNV-L950-CD1-SDWPD1-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: 5717.8 lumens
Efficiency: N/A
Efficacy: 78.6 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

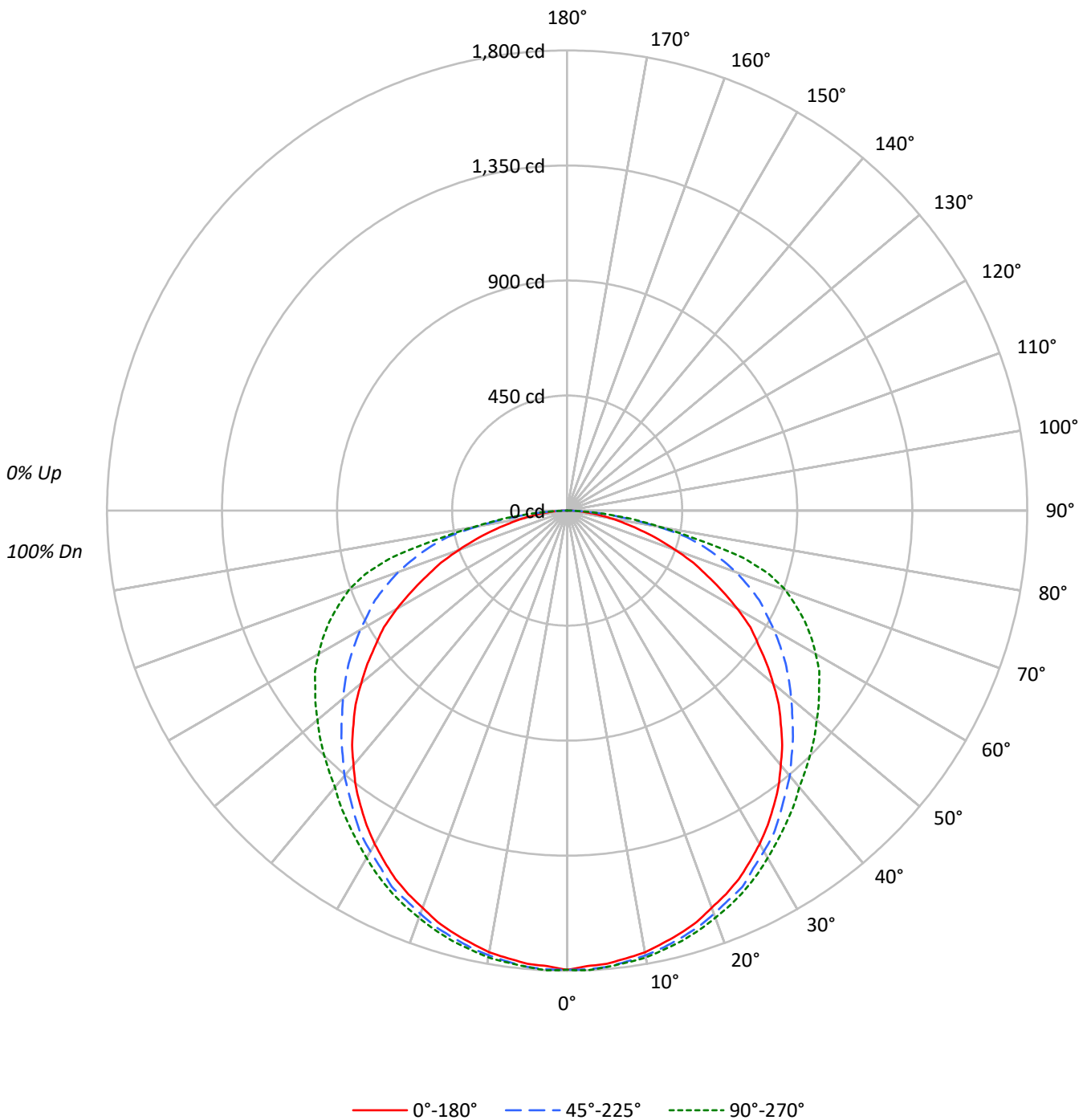
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4833	4833	4833
5°	4806	4840	4840
10°	4793	4827	4850
15°	4769	4816	4851
20°	4734	4806	4854
25°	4721	4821	4871
30°	4679	4784	4875
35°	4629	4767	4905
40°	4566	4758	4965
45°	4498	4754	5122
50°	4402	4790	5336
55°	4282	4894	5644
60°	4142	5026	6044
65°	3857	5276	6535
70°	3541	5526	7148
75°	3105	5816	7391
80°	2673	5540	5802
85°	2337	4026	4415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	3.0
10°-20°	487.8	8.5
20°-30°	744.2	13.0
30°-40°	908.7	15.9
40°-50°	971.6	17.0
50°-60°	937.8	16.4
60°-70°	807.3	14.1
70°-80°	546.2	9.6
80°-90°	144.1	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°	1401.9	24.5
0°-40°	2310.6	40.4
0°-60°	4220.1	73.8
0°-90°	5717.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5717.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1796	1796	1796	1796	1796	
5°	1779	1783	1792	1792	1792	169
15°	1712	1716	1729	1737	1741	483
25°	1590	1598	1624	1632	1640	732
35°	1409	1422	1451	1481	1493	882
45°	1182	1203	1249	1312	1346	912
55°	913	942	1043	1148	1203	818
65°	606	665	829	959	1026	602
75°	299	395	559	673	711	320
85°	76	105	130	135	143	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1796.1	1796.1	1796.1	1796.1	1796.1
2.5°	1783.4	1787.6	1796.1	1796.1	1800.3
5°	1779.2	1783.4	1791.9	1791.9	1791.9
7.5°	1766.6	1770.8	1779.2	1783.4	1783.4
10°	1754.0	1758.2	1766.6	1770.8	1775.0
12.5°	1733.0	1737.2	1749.8	1758.2	1758.2
15°	1711.9	1716.1	1728.8	1737.2	1741.4
17.5°	1686.7	1695.1	1707.7	1716.1	1720.3
20°	1653.0	1661.5	1678.3	1690.9	1695.1
22.5°	1623.6	1632.0	1648.8	1661.5	1669.9
25°	1590.0	1598.4	1623.6	1632.0	1640.4
27.5°	1547.9	1556.3	1577.3	1594.2	1606.8
30°	1505.8	1514.2	1539.5	1560.5	1568.9
32.5°	1459.6	1472.2	1501.6	1518.4	1531.1
35°	1409.1	1421.7	1451.1	1480.6	1493.2
37.5°	1358.6	1371.2	1400.7	1438.5	1455.4
40°	1299.7	1316.6	1354.4	1404.9	1413.3
42.5°	1245.0	1266.1	1299.7	1358.6	1379.6
45°	1182.0	1203.0	1249.3	1312.3	1346.0
47.5°	1123.1	1144.1	1194.6	1270.3	1312.3
50°	1051.6	1081.0	1144.1	1232.4	1274.5
52.5°	984.3	1009.5	1093.6	1190.4	1240.8
55°	912.8	942.2	1043.1	1148.3	1203.0
57.5°	849.7	874.9	988.5	1106.2	1169.3
60°	769.7	803.4	933.8	1060.0	1123.1
62.5°	685.6	736.1	879.1	1009.5	1076.8
65°	605.7	664.6	828.6	959.0	1026.3
67.5°	534.2	597.3	765.5	904.3	967.4
70°	450.1	530.0	702.4	837.0	908.5
72.5°	374.4	462.7	630.9	765.5	828.6
75°	298.6	395.4	559.4	673.0	710.9
77.5°	231.3	323.9	479.5	513.2	517.4
80°	172.5	256.6	357.5	361.7	374.4
82.5°	117.8	180.9	231.3	252.4	256.6
85°	75.7	105.2	130.4	134.6	143.0
87.5°	33.6	37.9	46.3	42.1	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)