

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: P390871

Luminaire Tested: **22CZ2-95VHE-RDP-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: P390871
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-SWPD1-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: 5787.6 lumens
Efficiency: N/A
Efficacy: 79.6 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

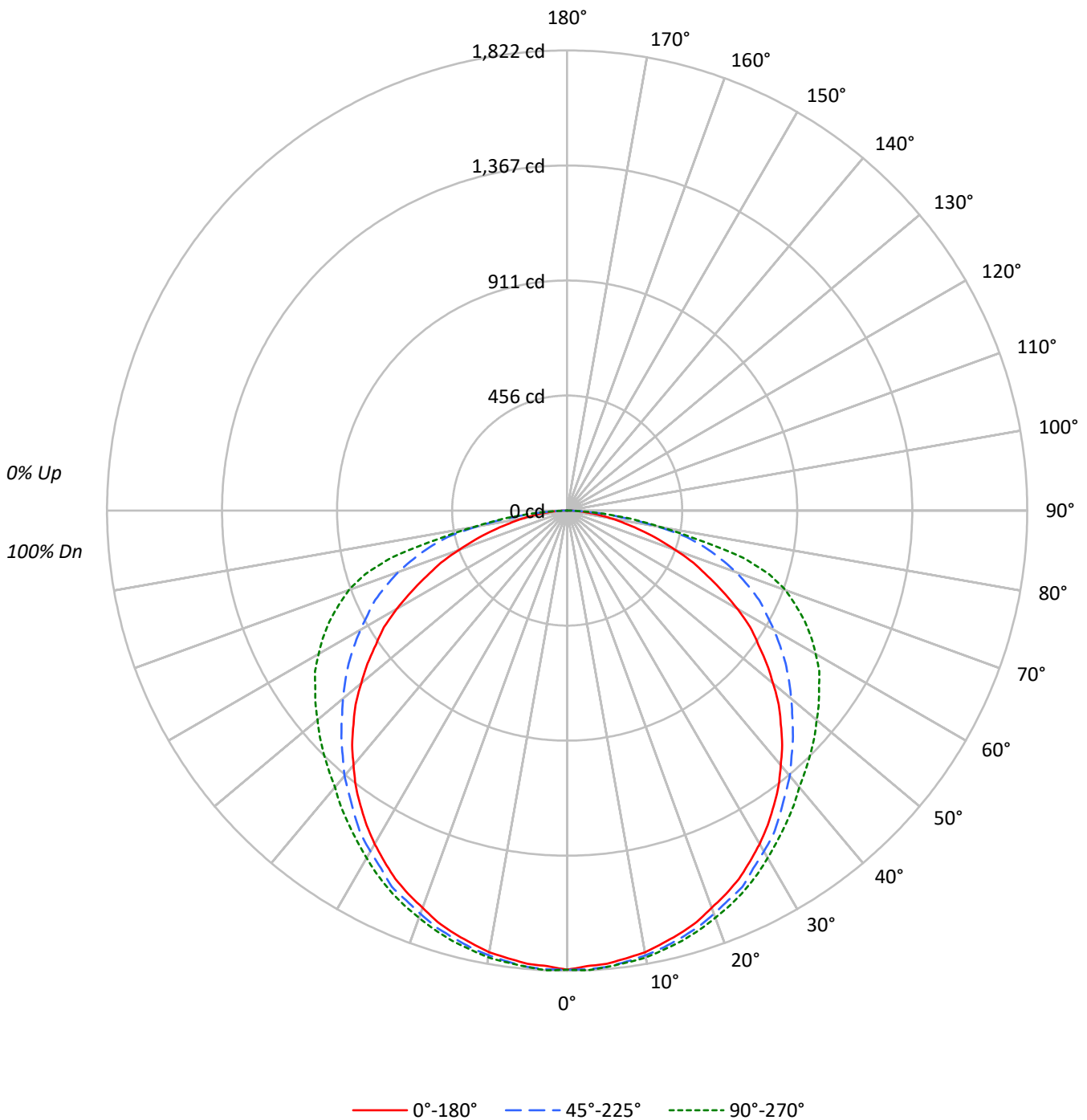
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4892	4892	4892
5°	4865	4899	4899
10°	4851	4886	4909
15°	4827	4875	4910
20°	4792	4865	4914
25°	4779	4880	4930
30°	4736	4842	4935
35°	4686	4825	4965
40°	4621	4816	5025
45°	4553	4812	5185
50°	4456	4848	5400
55°	4335	4954	5713
60°	4193	5087	6118
65°	3904	5340	6614
70°	3585	5594	7235
75°	3143	5888	7481
80°	2706	5608	5872
85°	2365	4076	4471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.0
10°-20°	493.8	8.5
20°-30°	753.3	13.0
30°-40°	919.8	15.9
40°-50°	983.5	17.0
50°-60°	949.3	16.4
60°-70°	817.2	14.1
70°-80°	552.9	9.6
80°-90°	145.9	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°	1419.0	24.5
0°-40°	2338.9	40.4
0°-60°	4271.7	73.8
0°-90°	5787.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5787.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1801	1805	1814	1814	1814	171
15°	1733	1737	1750	1758	1763	489
25°	1609	1618	1643	1652	1660	741
35°	1426	1439	1469	1499	1511	892
45°	1196	1218	1264	1328	1362	923
55°	924	954	1056	1162	1218	828
65°	613	673	839	971	1039	610
75°	302	400	566	681	720	324
85°	77	106	132	136	145	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.0	1818.0	1818.0	1818.0	1818.0
2.5°	1805.2	1809.5	1818.0	1818.0	1822.2
5°	1801.0	1805.2	1813.7	1813.7	1813.7
7.5°	1788.2	1792.4	1801.0	1805.2	1805.2
10°	1775.4	1779.7	1788.2	1792.4	1796.7
12.5°	1754.1	1758.4	1771.2	1779.7	1779.7
15°	1732.8	1737.1	1749.9	1758.4	1762.6
17.5°	1707.3	1715.8	1728.6	1737.1	1741.3
20°	1673.2	1681.7	1698.8	1711.5	1715.8
22.5°	1643.4	1651.9	1669.0	1681.7	1690.3
25°	1609.4	1617.9	1643.4	1651.9	1660.5
27.5°	1566.8	1575.3	1596.6	1613.6	1626.4
30°	1524.2	1532.7	1558.3	1579.6	1588.1
32.5°	1477.4	1490.2	1520.0	1537.0	1549.8
35°	1426.3	1439.1	1468.9	1498.7	1511.4
37.5°	1375.2	1388.0	1417.8	1456.1	1473.1
40°	1315.6	1332.6	1370.9	1422.0	1430.5
42.5°	1260.2	1281.5	1315.6	1375.2	1396.5
45°	1196.4	1217.7	1264.5	1328.4	1362.4
47.5°	1136.8	1158.1	1209.2	1285.8	1328.4
50°	1064.4	1094.2	1158.1	1247.5	1290.0
52.5°	996.3	1021.8	1107.0	1204.9	1256.0
55°	923.9	953.7	1055.9	1162.3	1217.7
57.5°	860.0	885.6	1000.5	1119.7	1183.6
60°	779.1	813.2	945.2	1072.9	1136.8
62.5°	694.0	745.1	889.8	1021.8	1089.9
65°	613.1	672.7	838.7	970.7	1038.8
67.5°	540.7	604.6	774.9	915.4	979.2
70°	455.6	536.5	711.0	847.3	919.6
72.5°	378.9	468.3	638.6	774.9	838.7
75°	302.3	400.2	566.3	681.2	719.5
77.5°	234.2	327.8	485.4	519.4	523.7
80°	174.6	259.7	361.9	366.2	378.9
82.5°	119.2	183.1	234.2	255.5	259.7
85°	76.6	106.4	132.0	136.2	144.8
87.5°	34.1	38.3	46.8	42.6	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)