

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: P391879

Luminaire Tested: **24CZ2-95VHE-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: P391879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-95VHE-RDP-UNV-L950-CD1-SWPD1-U
Description: 2x4 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: 5734.0 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

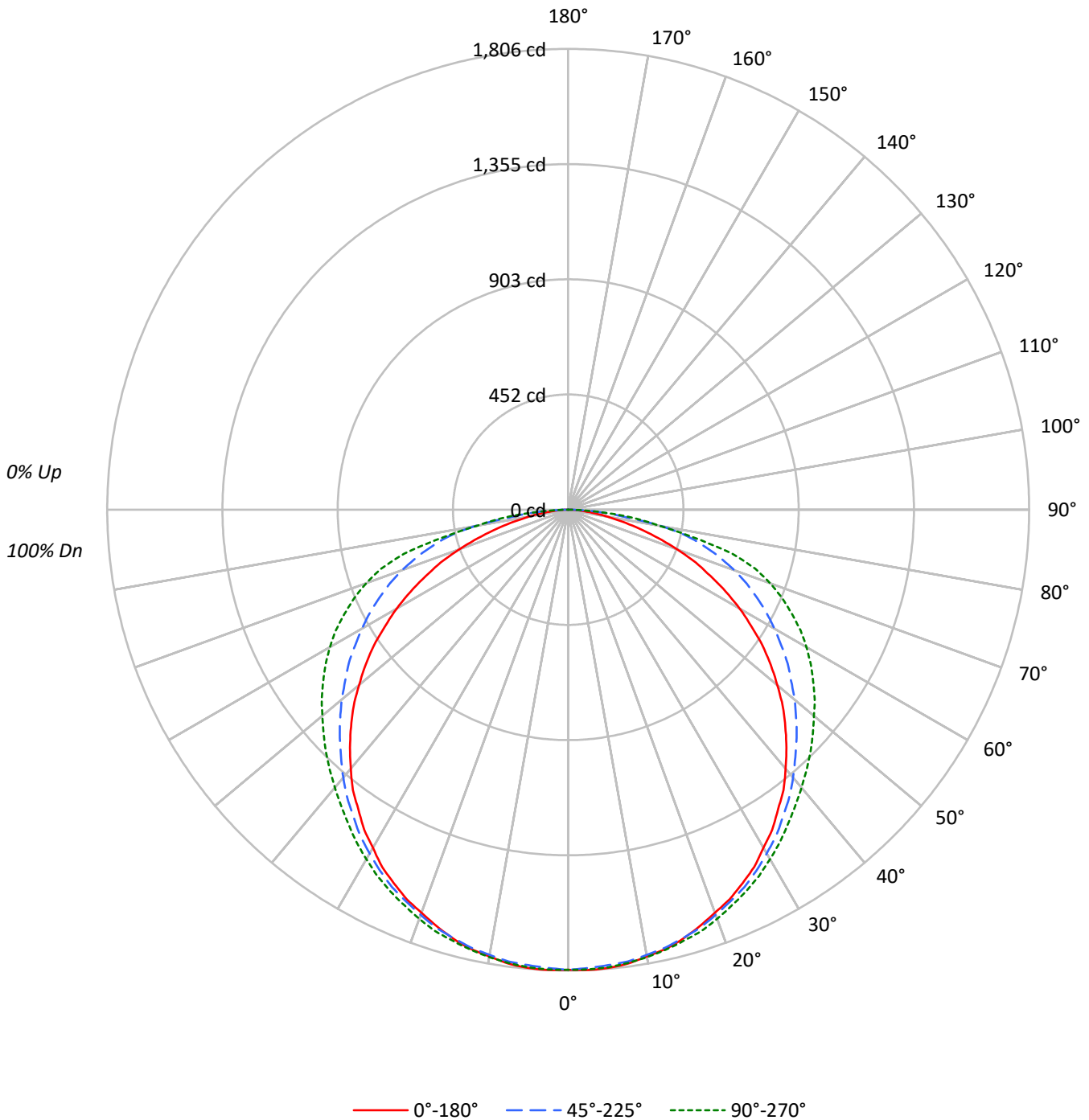
Input Watts (W): 65.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	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°	2426	2426	2426
5°	2435	2420	2432
10°	2429	2421	2432
15°	2425	2421	2436
20°	2407	2419	2443
25°	2398	2424	2449
30°	2377	2417	2457
35°	2354	2411	2467
40°	2328	2408	2498
45°	2289	2408	2554
50°	2238	2423	2631
55°	2182	2462	2749
60°	2089	2510	2901
65°	1956	2599	3079
70°	1779	2719	3312
75°	1508	2869	3460
80°	1190	2887	2799
85°	878	2195	2459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.0
10°-20°	492.3	8.6
20°-30°	752.8	13.1
30°-40°	920.3	16.0
40°-50°	980.8	17.1
50°-60°	937.8	16.4
60°-70°	794.4	13.9
70°-80°	533.9	9.3
80°-90°	150.6	2.6
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°	1416.1	24.7
0°-40°	2336.4	40.7
0°-60°	4255.0	74.2
0°-90°	5734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5734.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1803	1803	1803	1803	1803	
5°	1803	1800	1792	1800	1800	171
15°	1741	1741	1738	1752	1749	491
25°	1616	1621	1632	1647	1650	745
35°	1433	1445	1468	1496	1502	898
45°	1203	1223	1266	1320	1342	928
55°	930	964	1050	1132	1172	828
65°	614	677	816	924	967	610
75°	290	395	552	646	666	311
85°	57	117	142	154	159	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1803.2	1803.2	1803.2	1803.2	1803.2
2.5°	1806.0	1806.0	1797.5	1803.2	1803.2
5°	1803.2	1800.3	1791.8	1800.3	1800.3
7.5°	1794.6	1791.8	1786.1	1794.6	1791.8
10°	1777.6	1777.6	1771.9	1780.4	1780.4
12.5°	1763.4	1760.5	1757.7	1769.0	1766.2
15°	1740.6	1740.6	1737.8	1752.0	1749.1
17.5°	1712.2	1715.0	1717.9	1729.2	1732.1
20°	1680.9	1686.6	1689.4	1706.5	1706.5
22.5°	1652.4	1655.3	1661.0	1678.0	1678.0
25°	1615.5	1621.2	1632.5	1646.8	1649.6
27.5°	1578.5	1581.3	1595.6	1615.5	1618.3
30°	1530.1	1538.7	1555.7	1578.5	1581.3
32.5°	1487.5	1496.0	1515.9	1538.7	1544.4
35°	1433.4	1444.8	1467.6	1496.0	1501.7
37.5°	1385.1	1393.6	1422.1	1453.4	1461.9
40°	1325.4	1342.4	1370.9	1407.8	1422.1
42.5°	1265.6	1282.7	1316.8	1365.2	1382.2
45°	1203.1	1223.0	1265.6	1319.7	1342.4
47.5°	1140.5	1163.2	1211.6	1274.2	1299.8
50°	1069.4	1097.8	1157.6	1228.7	1257.1
52.5°	1001.1	1035.3	1100.7	1180.3	1217.3
55°	930.0	964.2	1049.5	1132.0	1171.8
57.5°	850.4	895.9	989.8	1083.6	1126.3
60°	776.4	819.1	932.9	1035.3	1077.9
62.5°	696.8	753.7	876.0	984.1	1026.7
65°	614.3	676.9	816.3	924.3	967.0
67.5°	540.4	608.6	756.5	864.6	907.3
70°	452.2	537.5	691.1	799.2	841.9
72.5°	369.7	463.6	622.9	728.1	767.9
75°	290.1	395.3	551.8	645.6	665.5
77.5°	216.2	327.1	477.8	517.6	503.4
80°	153.6	261.7	372.6	352.7	361.2
82.5°	99.5	199.1	230.4	261.7	270.2
85°	56.9	116.6	142.2	153.6	159.3
87.5°	25.6	42.7	56.9	56.9	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)