

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: P391875

Luminaire Tested: **24CZ2-95VHE-RDP-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: P391875
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-L940-CD1-SDWPD1-U
Description: 2x4 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5337.0 lumens
Efficiency: N/A
Efficacy: 81.4 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

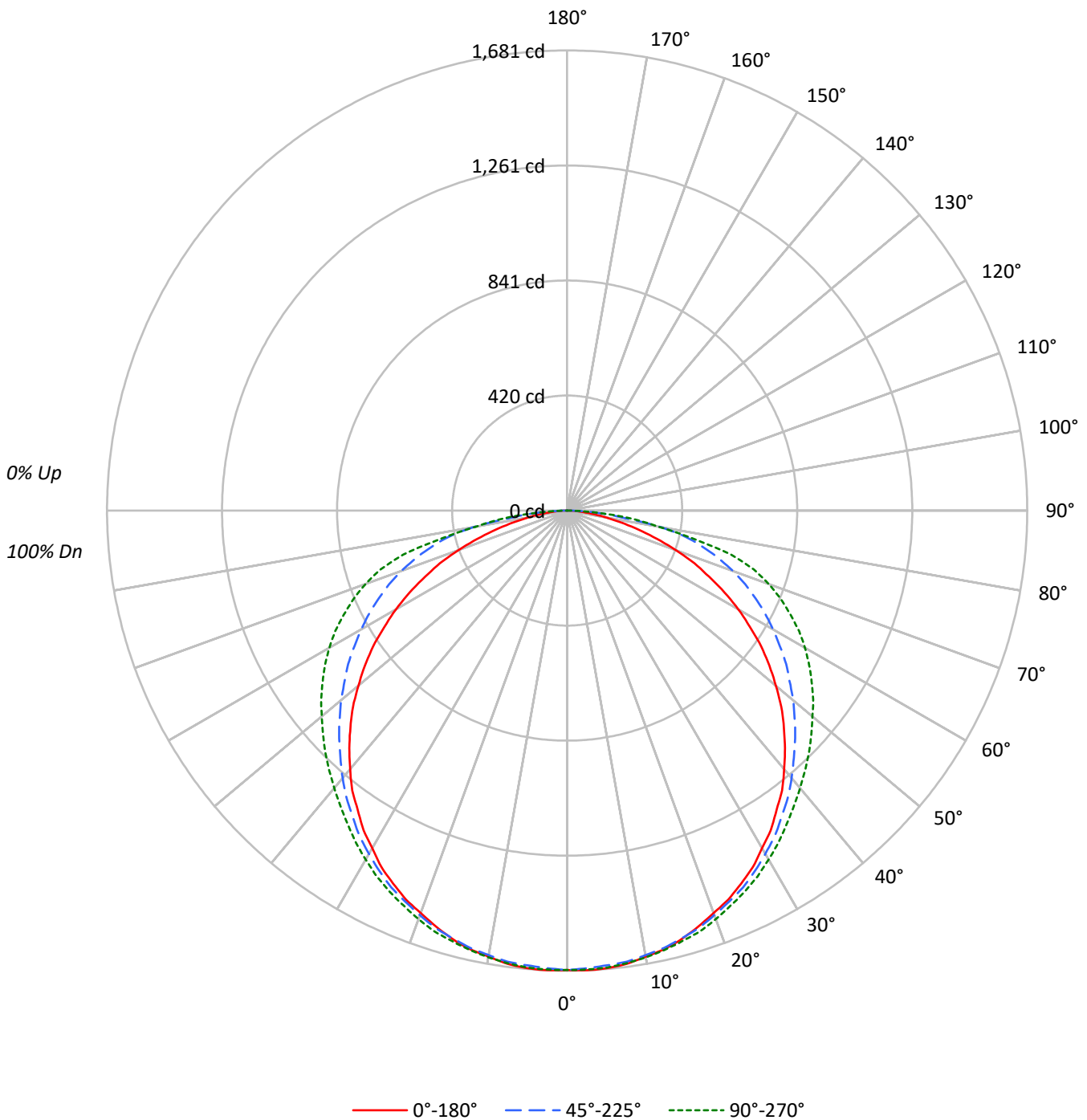
Input Watts (W): 65.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2258	2258	2258
5°	2267	2252	2263
10°	2260	2253	2264
15°	2257	2253	2268
20°	2240	2251	2274
25°	2232	2256	2279
30°	2213	2250	2287
35°	2191	2244	2296
40°	2167	2241	2325
45°	2131	2242	2378
50°	2084	2255	2449
55°	2031	2291	2559
60°	1945	2337	2700
65°	1820	2419	2866
70°	1656	2531	3083
75°	1404	2670	3220
80°	1107	2687	2605
85°	817	2044	2288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.0
10°-20°	458.2	8.6
20°-30°	700.7	13.1
30°-40°	856.6	16.0
40°-50°	912.9	17.1
50°-60°	872.9	16.4
60°-70°	739.4	13.9
70°-80°	497.0	9.3
80°-90°	140.2	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°	1318.1	24.7
0°-40°	2174.6	40.7
0°-60°	3960.4	74.2
0°-90°	5337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1678	1676	1668	1676	1676	159
15°	1620	1620	1617	1631	1628	457
25°	1504	1509	1520	1533	1535	693
35°	1334	1345	1366	1392	1398	836
45°	1120	1138	1178	1228	1250	864
55°	866	897	977	1054	1091	771
65°	572	630	760	860	900	568
75°	270	368	514	601	619	289
85°	53	108	132	143	148	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.3	1678.3	1678.3	1678.3	1678.3
2.5°	1681.0	1681.0	1673.0	1678.3	1678.3
5°	1678.3	1675.7	1667.7	1675.7	1675.7
7.5°	1670.4	1667.7	1662.5	1670.4	1667.7
10°	1654.5	1654.5	1649.2	1657.2	1657.2
12.5°	1641.3	1638.6	1636.0	1646.6	1643.9
15°	1620.1	1620.1	1617.4	1630.7	1628.0
17.5°	1593.6	1596.3	1598.9	1609.5	1612.2
20°	1564.5	1569.8	1572.4	1588.3	1588.3
22.5°	1538.0	1540.7	1546.0	1561.9	1561.9
25°	1503.6	1508.9	1519.5	1532.7	1535.4
27.5°	1469.2	1471.9	1485.1	1503.6	1506.3
30°	1424.2	1432.1	1448.0	1469.2	1471.9
32.5°	1384.5	1392.4	1411.0	1432.1	1437.4
35°	1334.2	1344.8	1366.0	1392.4	1397.7
37.5°	1289.2	1297.1	1323.6	1352.7	1360.7
40°	1233.6	1249.5	1276.0	1310.4	1323.6
42.5°	1178.0	1193.9	1225.7	1270.7	1286.5
45°	1119.8	1138.3	1178.0	1228.3	1249.5
47.5°	1061.5	1082.7	1127.7	1186.0	1209.8
50°	995.4	1021.8	1077.4	1143.6	1170.1
52.5°	931.8	963.6	1024.5	1098.6	1133.0
55°	865.6	897.4	976.8	1053.6	1090.7
57.5°	791.5	833.9	921.2	1008.6	1048.3
60°	722.7	762.4	868.3	963.6	1003.3
62.5°	648.6	701.5	815.3	915.9	955.6
65°	571.8	630.0	759.8	860.3	900.1
67.5°	503.0	566.5	704.2	804.8	844.5
70°	420.9	500.3	643.3	743.9	783.6
72.5°	344.1	431.5	579.7	677.7	714.7
75°	270.0	368.0	513.6	600.9	619.4
77.5°	201.2	304.4	444.7	481.8	468.6
80°	142.9	243.5	346.8	328.3	336.2
82.5°	92.7	185.3	214.4	243.5	251.5
85°	52.9	108.5	132.4	142.9	148.2
87.5°	23.8	39.7	52.9	52.9	50.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)