

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: P261280

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

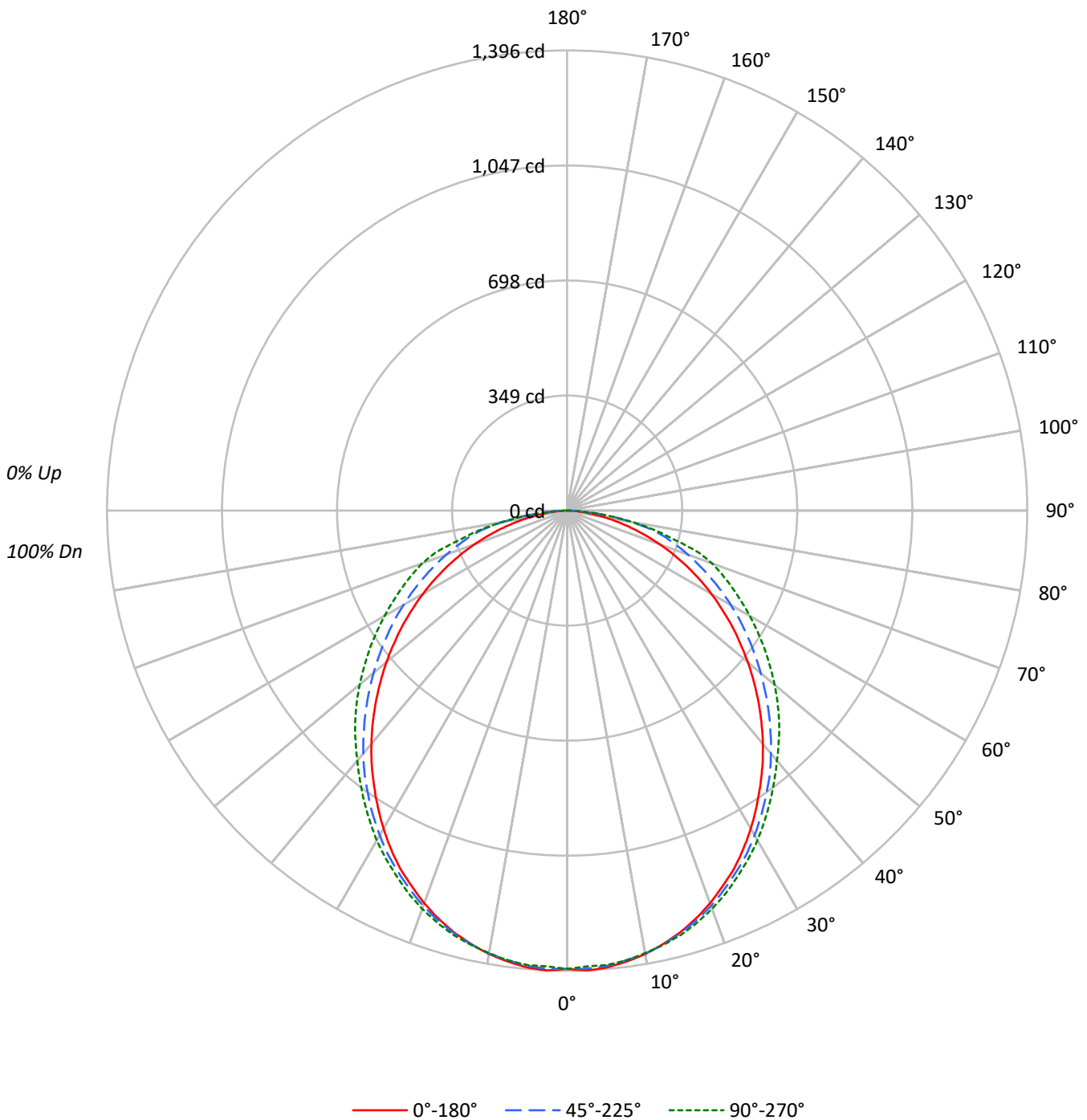
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1879	1872	1869
10°	1866	1864	1863
15°	1846	1849	1856
20°	1815	1828	1840
25°	1779	1798	1817
30°	1731	1767	1795
35°	1677	1729	1765
40°	1623	1690	1739
45°	1561	1646	1731
50°	1498	1605	1720
55°	1433	1571	1715
60°	1358	1544	1722
65°	1277	1525	1757
70°	1176	1533	1840
75°	1043	1588	1713
80°	871	1505	1544
85°	651	1203	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	3.4
10°-20°	373.8	9.7
20°-30°	557.1	14.5
30°-40°	655.7	17.1
40°-50°	666.4	17.4
50°-60°	599.1	15.6
60°-70°	473.3	12.3
70°-80°	300.3	7.8
80°-90°	82.9	2.2
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°	1062.3	27.7
0°-40°	1718.0	44.7
0°-60°	2983.6	77.7
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1391	1380	1386	1384	1384	132
15°	1325	1319	1328	1331	1333	373
25°	1198	1197	1211	1219	1224	551
35°	1021	1027	1053	1064	1075	639
45°	820	832	865	891	910	633
55°	611	626	670	713	731	545
65°	401	422	479	532	552	397
75°	201	235	305	332	330	214
85°	42	73	78	72	72	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.2	1390.2	1390.2	1390.2	1390.2
2.5°	1396.5	1386.3	1391.4	1388.9	1383.8
5°	1391.4	1379.9	1386.3	1383.8	1383.8
7.5°	1379.9	1371.0	1376.1	1374.8	1376.1
10°	1365.9	1356.9	1364.6	1364.6	1363.3
12.5°	1346.7	1339.0	1348.0	1348.0	1349.3
15°	1325.0	1318.6	1327.5	1331.4	1332.7
17.5°	1298.2	1291.8	1303.3	1307.1	1310.9
20°	1267.5	1264.9	1276.4	1280.3	1285.4
22.5°	1233.0	1233.0	1244.5	1249.6	1257.3
25°	1198.5	1197.2	1211.3	1218.9	1224.0
27.5°	1157.6	1158.9	1176.8	1184.4	1190.8
30°	1114.2	1116.7	1137.2	1146.1	1155.1
32.5°	1068.2	1073.3	1096.3	1106.5	1115.4
35°	1020.9	1027.3	1052.8	1064.3	1074.6
37.5°	973.6	982.6	1009.4	1020.9	1032.4
40°	923.8	931.5	962.1	976.2	990.2
42.5°	872.7	882.9	913.6	934.0	950.6
45°	820.3	831.8	865.0	890.6	909.7
47.5°	767.9	783.2	815.2	849.7	866.3
50°	715.5	730.9	766.6	805.0	821.6
52.5°	661.9	677.2	718.1	757.7	775.6
55°	610.7	626.1	669.5	713.0	730.9
57.5°	557.1	573.7	622.2	667.0	684.9
60°	504.7	521.3	573.7	621.0	640.1
62.5°	453.6	471.5	526.4	576.2	595.4
65°	401.2	421.6	479.1	531.5	552.0
67.5°	350.1	373.1	433.1	488.1	509.8
70°	299.0	325.8	389.7	445.9	467.6
72.5°	249.2	278.5	346.3	402.5	414.0
75°	200.6	235.1	305.4	332.2	329.6
77.5°	154.6	192.9	259.4	264.5	272.2
80°	112.4	154.6	194.2	204.4	199.3
82.5°	74.1	116.3	139.3	134.2	132.9
85°	42.2	72.8	77.9	71.6	71.6
87.5°	17.9	29.4	25.6	19.2	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)