

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: P261277

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261277
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.0 lumens
Efficiency: N/A
Efficacy: 125.3 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

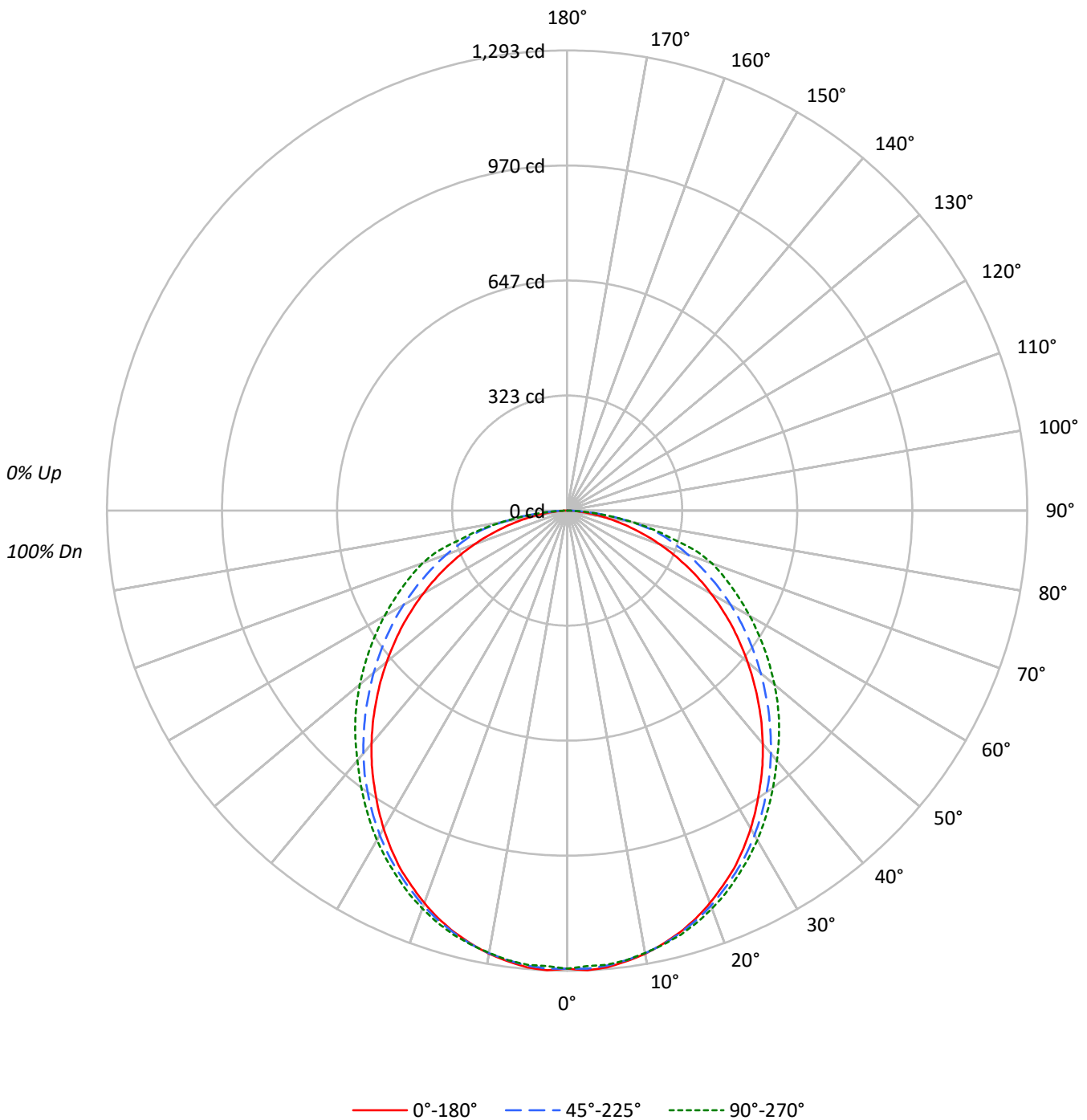
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1732	1732	1732
5°	1740	1733	1730
10°	1728	1726	1724
15°	1709	1712	1718
20°	1680	1692	1704
25°	1647	1665	1682
30°	1603	1636	1661
35°	1552	1601	1634
40°	1502	1564	1610
45°	1445	1524	1603
50°	1387	1486	1592
55°	1326	1454	1587
60°	1257	1429	1595
65°	1182	1412	1627
70°	1089	1419	1703
75°	965	1470	1587
80°	807	1393	1430
85°	602	1115	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.4
10°-20°	346.1	9.7
20°-30°	515.7	14.5
30°-40°	607.1	17.1
40°-50°	616.9	17.4
50°-60°	554.6	15.6
60°-70°	438.2	12.3
70°-80°	278.0	7.8
80°-90°	76.7	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°	983.4	27.7
0°-40°	1590.5	44.7
0°-60°	2762.1	77.7
0°-90°	3555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1288	1278	1283	1281	1281	122
15°	1227	1221	1229	1233	1234	346
25°	1110	1108	1121	1128	1133	510
35°	945	951	975	985	995	591
45°	759	770	801	824	842	586
55°	565	580	620	660	677	505
65°	371	390	444	492	511	368
75°	186	218	283	308	305	198
85°	39	67	72	66	66	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.0	1287.0	1287.0	1287.0	1287.0
2.5°	1292.9	1283.4	1288.2	1285.8	1281.1
5°	1288.2	1277.5	1283.4	1281.1	1281.1
7.5°	1277.5	1269.2	1274.0	1272.8	1274.0
10°	1264.5	1256.2	1263.3	1263.3	1262.1
12.5°	1246.8	1239.7	1247.9	1247.9	1249.1
15°	1226.6	1220.7	1229.0	1232.6	1233.7
17.5°	1201.8	1195.9	1206.5	1210.1	1213.6
20°	1173.4	1171.1	1181.7	1185.2	1190.0
22.5°	1141.5	1141.5	1152.1	1156.9	1164.0
25°	1109.5	1108.4	1121.4	1128.5	1133.2
27.5°	1071.7	1072.9	1089.4	1096.5	1102.4
30°	1031.5	1033.8	1052.8	1061.0	1069.3
32.5°	988.9	993.6	1014.9	1024.4	1032.7
35°	945.1	951.0	974.7	985.3	994.8
37.5°	901.4	909.6	934.5	945.1	955.8
40°	855.2	862.3	890.7	903.7	916.7
42.5°	807.9	817.4	845.8	864.7	880.1
45°	759.4	770.1	800.8	824.5	842.2
47.5°	710.9	725.1	754.7	786.6	802.0
50°	662.4	676.6	709.7	745.2	760.6
52.5°	612.7	626.9	664.8	701.4	718.0
55°	565.4	579.6	619.8	660.0	676.6
57.5°	515.7	531.1	576.1	617.5	634.0
60°	467.2	482.6	531.1	574.9	592.6
62.5°	419.9	436.5	487.3	533.5	551.2
65°	371.4	390.4	443.6	492.1	511.0
67.5°	324.1	345.4	401.0	451.9	472.0
70°	276.8	301.6	360.8	412.8	432.9
72.5°	230.7	257.9	320.6	372.6	383.3
75°	185.7	217.7	282.7	307.5	305.2
77.5°	143.1	178.6	240.1	244.9	252.0
80°	104.1	143.1	179.8	189.3	184.5
82.5°	68.6	107.6	128.9	124.2	123.0
85°	39.0	67.4	72.2	66.2	66.2
87.5°	16.6	27.2	23.7	17.7	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)