

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: P258868

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L92765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4112.0 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

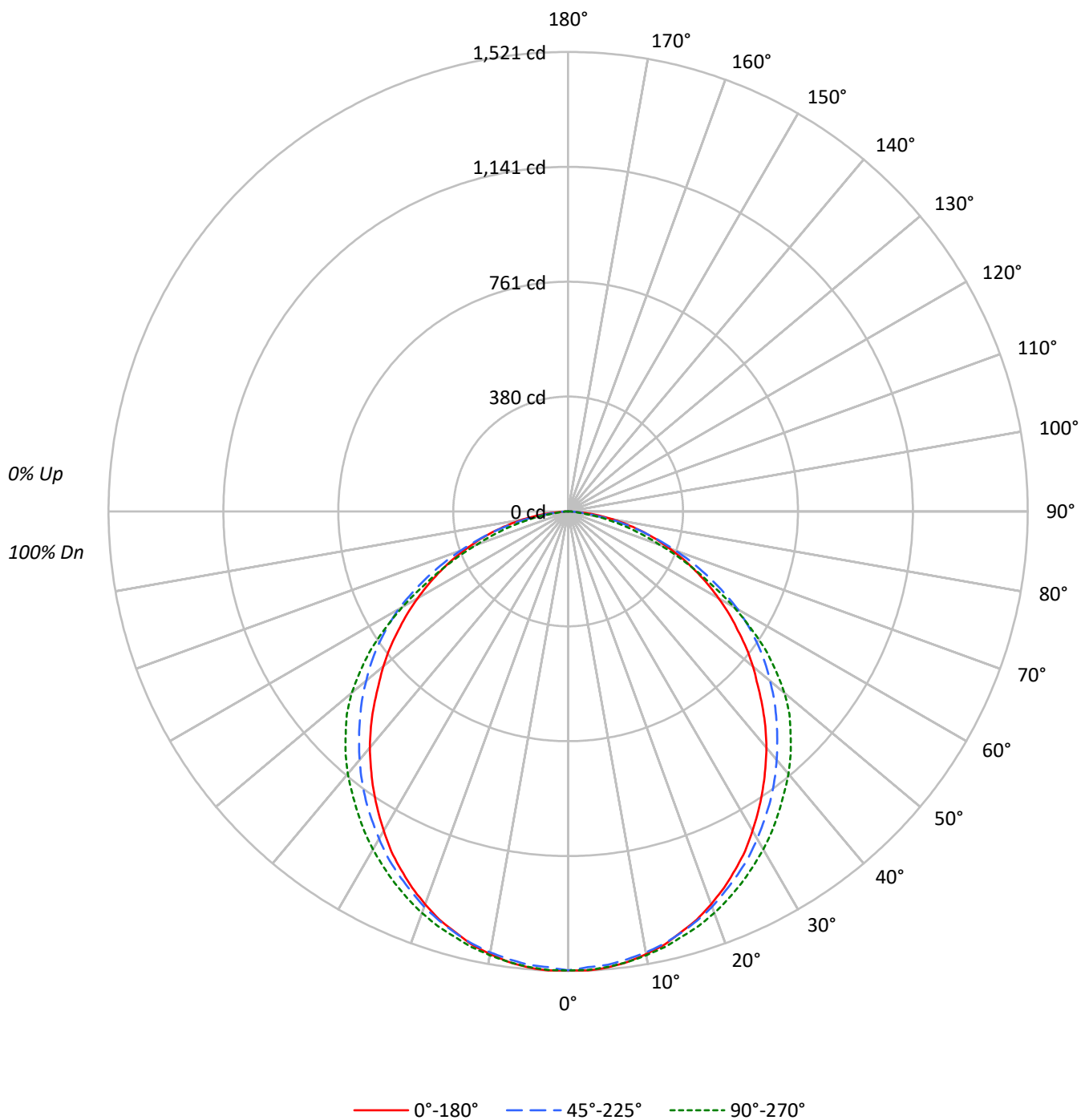
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	100	97	106	102	98	95		98	95	92		94	92	89		91	89	87
2	99	91	85	79	97	89	83	78		86	81	76		83	78	75		80	76	73
3	91	80	72	66	88	79	71	65		76	69	64		73	68	63		70	66	62
4	83	71	63	56	81	70	62	56		67	60	55		65	59	54		63	58	53
5	76	64	55	48	74	63	54	48		60	53	47		58	52	47		57	51	46
6	71	57	48	42	69	56	48	42		55	47	42		53	46	41		51	45	41
7	65	52	43	37	64	51	43	37		50	42	37		48	42	37		47	41	36
8	61	47	39	33	59	47	39	33		45	38	33		44	38	33		43	37	32
9	57	44	35	30	56	43	35	30		42	35	30		41	34	30		40	34	29
10	53	40	32	27	52	40	32	27		39	32	27		38	31	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4088	4088	4088
5°	4093	4068	4088
10°	4065	4050	4076
15°	4017	4023	4058
20°	3962	3988	4051
25°	3885	3939	4031
30°	3792	3889	4014
35°	3690	3834	3991
40°	3585	3772	3984
45°	3459	3710	3961
50°	3345	3651	3912
55°	3215	3593	3739
60°	3096	3491	3412
65°	2963	3266	2998
70°	2797	2970	2537
75°	2610	2572	2096
80°	2300	1988	1533
85°	1809	960	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.5
10°-20°	408.9	9.9
20°-30°	613.6	14.9
30°-40°	731.6	17.8
40°-50°	753.5	18.3
50°-60°	671.6	16.3
60°-70°	483.9	11.8
70°-80°	253.1	6.2
80°-90°	52.3	1.3
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°	1166.1	28.4
0°-40°	1897.6	46.1
0°-60°	3322.7	80.8
0°-90°	4112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1519	1519	1519	1519	1519	
5°	1515	1512	1506	1515	1514	144
15°	1442	1444	1444	1458	1457	407
25°	1308	1316	1327	1352	1358	603
35°	1123	1138	1167	1206	1215	702
45°	909	929	975	1030	1041	701
55°	685	707	766	801	797	615
65°	465	482	513	489	471	461
75°	251	264	247	214	202	266
85°	59	51	31	28	28	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1519.0	1519.0	1519.0	1519.0	1519.0
2.5°	1520.8	1517.1	1509.8	1519.0	1519.0
5°	1515.3	1511.6	1506.1	1515.3	1513.5
7.5°	1504.3	1500.7	1495.2	1506.1	1504.3
10°	1487.8	1486.0	1482.3	1493.3	1491.5
12.5°	1469.5	1467.7	1465.8	1476.8	1476.8
15°	1442.0	1443.9	1443.9	1458.5	1456.7
17.5°	1416.4	1418.2	1420.0	1438.4	1438.4
20°	1383.4	1385.2	1392.5	1412.7	1414.5
22.5°	1348.6	1350.4	1359.6	1383.4	1387.0
25°	1308.3	1315.6	1326.6	1352.2	1357.7
27.5°	1267.9	1273.4	1291.8	1321.1	1324.8
30°	1220.3	1231.3	1251.5	1284.4	1291.8
32.5°	1172.7	1185.5	1209.3	1246.0	1255.1
35°	1123.2	1137.9	1167.2	1205.7	1214.8
37.5°	1071.9	1084.7	1121.4	1161.7	1174.5
40°	1020.6	1033.4	1073.7	1119.5	1134.2
42.5°	965.6	983.9	1024.3	1075.6	1090.2
45°	908.8	929.0	974.8	1029.8	1040.7
47.5°	850.2	872.2	925.3	980.3	993.1
50°	798.9	819.0	872.2	925.3	934.5
52.5°	743.9	762.2	820.9	864.8	866.7
55°	685.3	707.3	765.9	800.7	797.0
57.5°	632.1	650.5	707.3	725.6	714.6
60°	575.3	591.8	648.6	650.5	634.0
62.5°	520.4	536.9	580.8	568.0	547.9
65°	465.4	481.9	513.0	489.2	470.9
67.5°	412.3	426.9	445.2	414.1	395.8
70°	355.5	375.6	377.5	340.8	322.5
72.5°	306.0	317.0	313.3	278.5	262.0
75°	251.0	263.9	247.4	214.4	201.6
77.5°	199.7	208.9	186.9	155.7	146.6
80°	148.4	153.9	128.3	104.4	98.9
82.5°	100.8	100.8	73.3	56.8	51.3
85°	58.6	51.3	31.1	27.5	27.5
87.5°	20.2	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)