

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: P275550

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

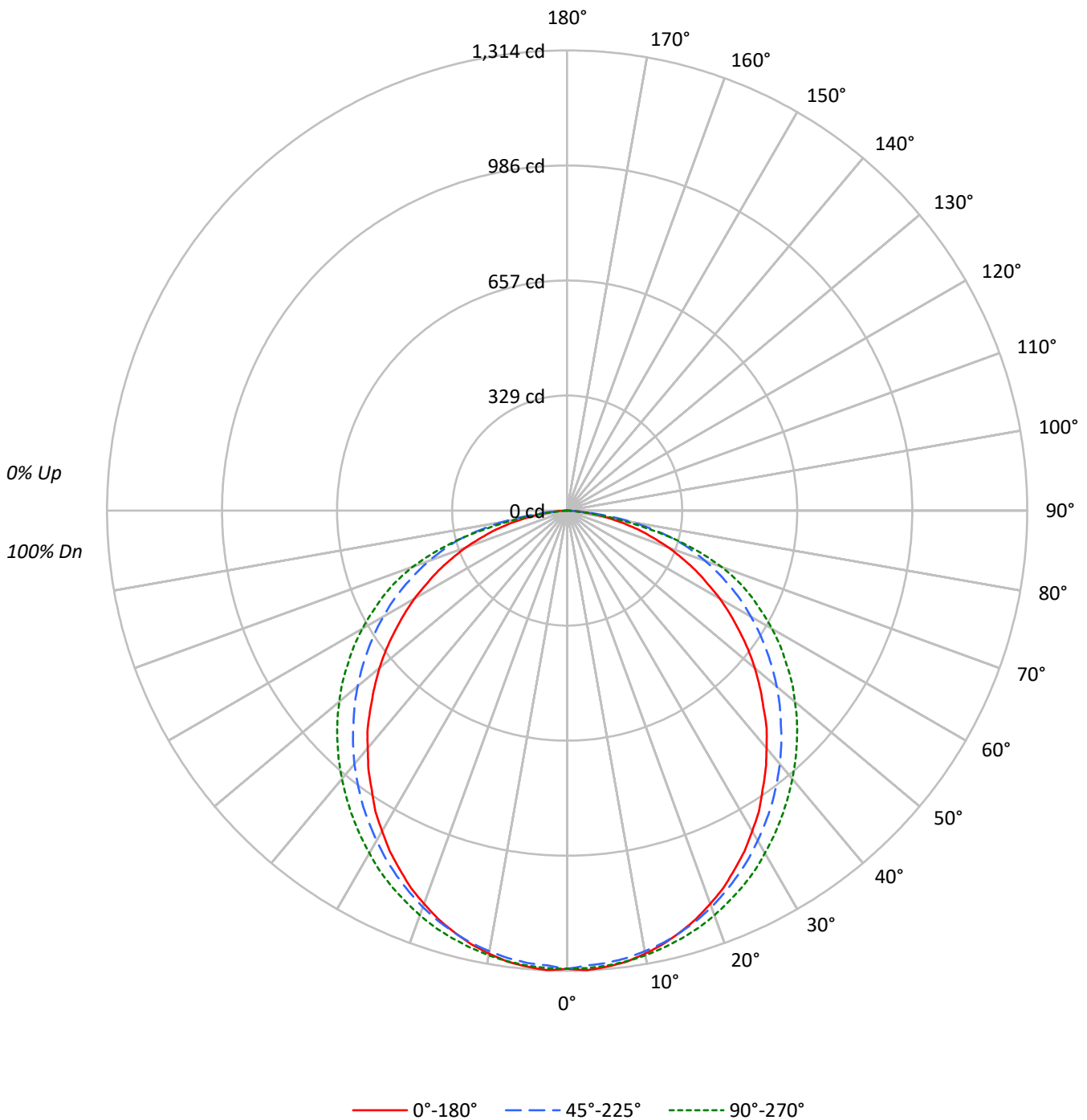
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3521	3521	3521
5°	3532	3502	3523
10°	3510	3492	3524
15°	3473	3475	3522
20°	3422	3451	3521
25°	3357	3417	3518
30°	3284	3381	3510
35°	3197	3352	3508
40°	3112	3320	3514
45°	3017	3284	3532
50°	2928	3269	3556
55°	2817	3258	3588
60°	2716	3264	3637
65°	2578	3273	3694
70°	2419	3298	3692
75°	2193	3328	3337
80°	1798	2875	2376
85°	1334	1359	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.3
10°-20°	353.7	9.3
20°-30°	532.8	14.0
30°-40°	639.3	16.8
40°-50°	666.4	17.5
50°-60°	616.9	16.2
60°-70°	498.4	13.1
70°-80°	303.9	8.0
80°-90°	62.7	1.7
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°	1010.3	26.6
0°-40°	1649.6	43.4
0°-60°	2932.9	77.2
0°-90°	3798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1308	1304	1297	1306	1304	124
15°	1247	1247	1247	1264	1264	351
25°	1131	1137	1151	1180	1185	521
35°	973	988	1020	1058	1068	610
45°	793	816	863	911	928	613
55°	600	632	694	749	765	538
65°	405	445	514	566	580	400
75°	211	258	320	325	321	221
85°	43	64	44	25	18	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1313.5	1309.3	1300.0	1309.3	1307.6
5°	1307.6	1304.2	1296.6	1305.9	1304.2
7.5°	1299.1	1295.7	1288.9	1300.0	1298.3
10°	1284.7	1283.0	1277.9	1290.6	1289.8
12.5°	1267.8	1266.9	1264.4	1278.8	1277.9
15°	1246.6	1247.4	1247.4	1264.4	1264.4
17.5°	1222.9	1224.6	1228.0	1246.6	1249.1
20°	1194.9	1198.3	1205.1	1226.3	1229.7
22.5°	1166.1	1168.7	1178.9	1204.3	1207.6
25°	1130.6	1137.4	1150.9	1179.7	1184.8
27.5°	1096.7	1102.6	1121.3	1150.9	1159.4
30°	1056.9	1066.2	1088.2	1120.4	1129.7
32.5°	1018.8	1029.0	1054.4	1091.6	1100.1
35°	973.1	988.3	1020.5	1057.7	1067.9
37.5°	931.6	946.0	982.4	1023.0	1034.9
40°	885.8	903.6	945.1	988.3	1000.2
42.5°	843.5	860.4	905.3	949.3	965.4
45°	792.7	816.4	863.0	911.2	928.2
47.5°	746.1	769.8	823.2	874.8	890.1
50°	699.5	724.9	780.8	834.2	849.4
52.5°	651.2	678.3	738.5	791.8	809.6
55°	600.4	631.8	694.4	748.6	764.7
57.5°	552.2	584.3	651.2	706.3	722.4
60°	504.7	537.8	606.4	658.9	675.8
62.5°	452.2	491.2	562.3	614.0	626.7
65°	404.8	444.6	514.1	565.7	580.1
67.5°	354.8	398.0	467.5	514.9	528.5
70°	307.4	352.3	419.2	463.2	469.2
72.5°	256.6	302.3	370.1	398.0	398.0
75°	210.9	257.5	320.1	325.2	321.0
77.5°	160.9	212.6	253.2	243.1	232.9
80°	116.0	166.8	185.5	166.8	153.3
82.5°	77.9	121.1	111.8	88.9	78.8
85°	43.2	64.4	44.0	24.6	17.8
87.5°	16.1	14.4	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)