

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: P275502

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275502
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: 14CZ2-20-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1629.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

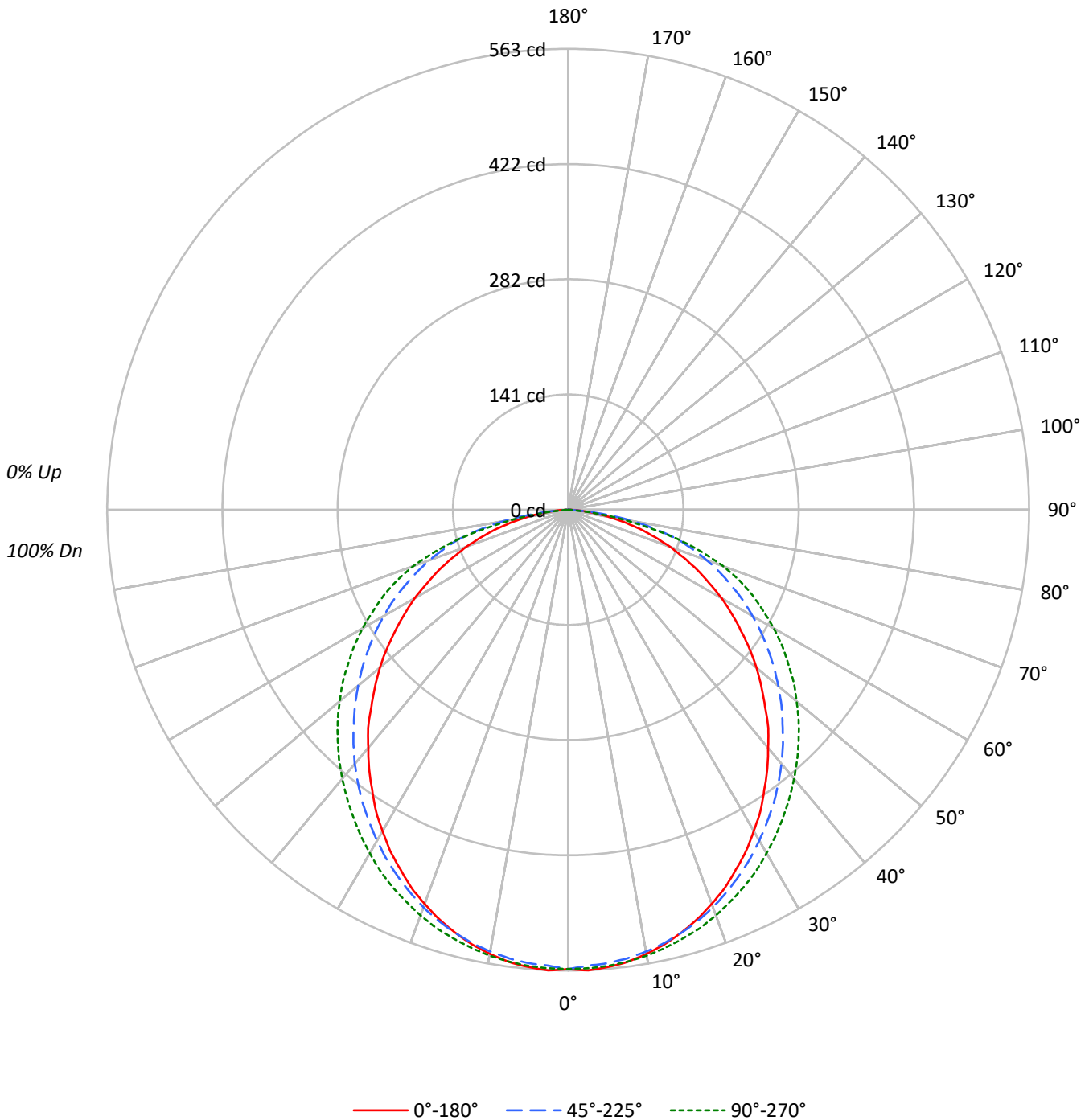
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1510	1510	1510
5°	1515	1502	1511
10°	1506	1498	1512
15°	1490	1490	1511
20°	1468	1480	1510
25°	1440	1466	1509
30°	1409	1450	1506
35°	1371	1438	1505
40°	1335	1424	1507
45°	1294	1408	1515
50°	1256	1402	1525
55°	1208	1398	1539
60°	1165	1400	1560
65°	1105	1404	1584
70°	1038	1415	1583
75°	940	1428	1432
80°	772	1232	1018
85°	571	584	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	3.3
10°-20°	151.7	9.3
20°-30°	228.5	14.0
30°-40°	274.2	16.8
40°-50°	285.8	17.5
50°-60°	264.6	16.2
60°-70°	213.8	13.1
70°-80°	130.3	8.0
80°-90°	26.9	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°	433.3	26.6
0°-40°	707.5	43.4
0°-60°	1258.0	77.2
0°-90°	1629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	561	559	556	560	559	53
15°	535	535	535	542	542	151
25°	485	488	494	506	508	224
35°	417	424	438	454	458	261
45°	340	350	370	391	398	263
55°	258	271	298	321	328	231
65°	174	191	220	243	249	172
75°	90	110	137	140	138	95
85°	18	28	19	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.2	561.2	561.2	561.2	561.2
2.5°	563.4	561.6	557.6	561.6	560.8
5°	560.8	559.4	556.1	560.1	559.4
7.5°	557.2	555.7	552.8	557.6	556.8
10°	551.0	550.3	548.1	553.6	553.2
12.5°	543.8	543.4	542.3	548.5	548.1
15°	534.7	535.0	535.0	542.3	542.3
17.5°	524.5	525.2	526.7	534.7	535.8
20°	512.5	514.0	516.9	526.0	527.4
22.5°	500.2	501.3	505.6	516.5	518.0
25°	484.9	487.8	493.6	506.0	508.2
27.5°	470.4	472.9	480.9	493.6	497.3
30°	453.3	457.3	466.8	480.6	484.6
32.5°	437.0	441.3	452.2	468.2	471.8
35°	417.4	423.9	437.7	453.7	458.0
37.5°	399.6	405.7	421.4	438.8	443.9
40°	379.9	387.6	405.4	423.9	429.0
42.5°	361.8	369.0	388.3	407.2	414.1
45°	340.0	350.2	370.1	390.8	398.1
47.5°	320.0	330.2	353.1	375.2	381.8
50°	300.0	310.9	334.9	357.8	364.3
52.5°	279.3	291.0	316.7	339.6	347.3
55°	257.5	271.0	297.9	321.1	328.0
57.5°	236.8	250.6	279.3	302.9	309.8
60°	216.5	230.7	260.1	282.6	289.9
62.5°	194.0	210.7	241.2	263.3	268.8
65°	173.6	190.7	220.5	242.6	248.8
67.5°	152.2	170.7	200.5	220.8	226.7
70°	131.9	151.1	179.8	198.7	201.2
72.5°	110.1	129.7	158.7	170.7	170.7
75°	90.4	110.4	137.3	139.5	137.7
77.5°	69.0	91.2	108.6	104.2	99.9
80°	49.8	71.6	79.5	71.6	65.7
82.5°	33.4	51.9	47.9	38.1	33.8
85°	18.5	27.6	18.9	10.5	7.6
87.5°	6.9	6.2	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)