

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: P275507

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275507
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-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1922.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

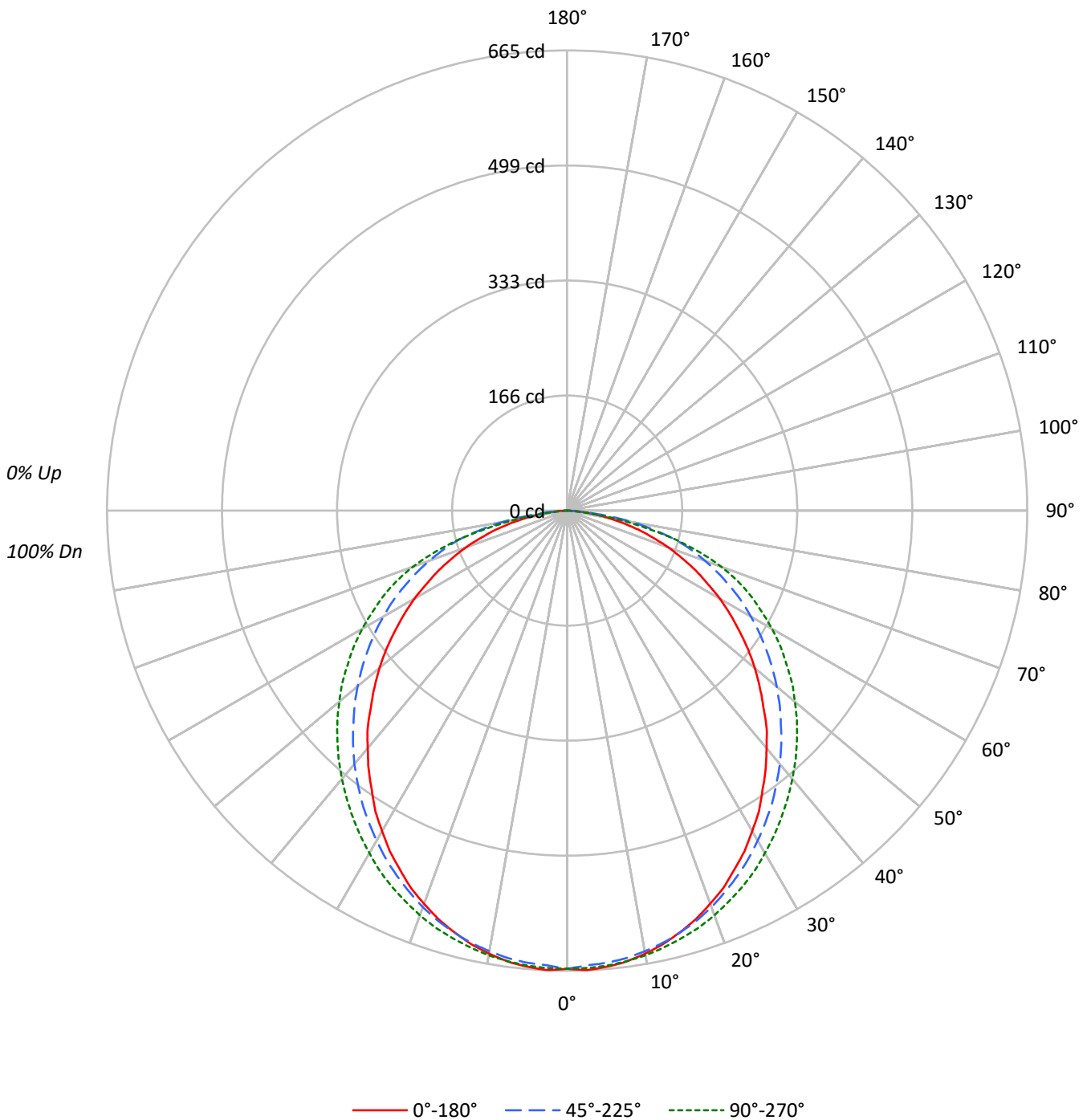
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1782	1782	1782
5°	1787	1772	1783
10°	1776	1767	1783
15°	1757	1759	1782
20°	1732	1747	1782
25°	1699	1729	1780
30°	1662	1711	1776
35°	1618	1696	1775
40°	1575	1680	1778
45°	1526	1662	1787
50°	1482	1654	1800
55°	1426	1649	1816
60°	1375	1652	1841
65°	1305	1656	1869
70°	1224	1669	1868
75°	1109	1684	1688
80°	910	1455	1203
85°	676	689	278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	3.3
10°-20°	179.0	9.3
20°-30°	269.6	14.0
30°-40°	323.5	16.8
40°-50°	337.2	17.5
50°-60°	312.2	16.2
60°-70°	252.2	13.1
70°-80°	153.8	8.0
80°-90°	31.7	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°	511.3	26.6
0°-40°	834.8	43.4
0°-60°	1484.2	77.2
0°-90°	1922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	662	660	656	661	660	63
15°	631	631	631	640	640	178
25°	572	576	582	597	600	264
35°	492	500	516	535	540	308
45°	401	413	437	461	470	310
55°	304	320	351	379	387	272
65°	205	225	260	286	294	203
75°	107	130	162	165	162	112
85°	22	33	22	12	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	664.7	662.6	657.8	662.6	661.7
5°	661.7	660.0	656.1	660.8	660.0
7.5°	657.4	655.7	652.3	657.8	657.0
10°	650.1	649.3	646.7	653.1	652.7
12.5°	641.6	641.1	639.8	647.1	646.7
15°	630.8	631.3	631.3	639.8	639.8
17.5°	618.9	619.7	621.4	630.8	632.1
20°	604.7	606.4	609.9	620.6	622.3
22.5°	590.1	591.4	596.6	609.4	611.1
25°	572.1	575.6	582.4	597.0	599.6
27.5°	555.0	558.0	567.4	582.4	586.7
30°	534.9	539.6	550.7	567.0	571.7
32.5°	515.6	520.7	533.6	552.4	556.7
35°	492.4	500.1	516.4	535.3	540.4
37.5°	471.4	478.7	497.1	517.7	523.7
40°	448.3	457.3	478.3	500.1	506.1
42.5°	426.9	435.4	458.1	480.4	488.6
45°	401.1	413.1	436.7	461.1	469.7
47.5°	377.6	389.6	416.6	442.7	450.4
50°	354.0	366.9	395.1	422.1	429.9
52.5°	329.6	343.3	373.7	400.7	409.7
55°	303.9	319.7	351.4	378.9	387.0
57.5°	279.4	295.7	329.6	357.4	365.6
60°	255.4	272.1	306.9	333.4	342.0
62.5°	228.9	248.6	284.6	310.7	317.1
65°	204.9	225.0	260.1	286.3	293.6
67.5°	179.6	201.4	236.6	260.6	267.4
70°	155.6	178.3	212.1	234.4	237.4
72.5°	129.9	153.0	187.3	201.4	201.4
75°	106.7	130.3	162.0	164.6	162.4
77.5°	81.4	107.6	128.1	123.0	117.9
80°	58.7	84.4	93.9	84.4	77.6
82.5°	39.4	61.3	56.6	45.0	39.9
85°	21.9	32.6	22.3	12.4	9.0
87.5°	8.1	7.3	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)