

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: P275509

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275509
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-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1959.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

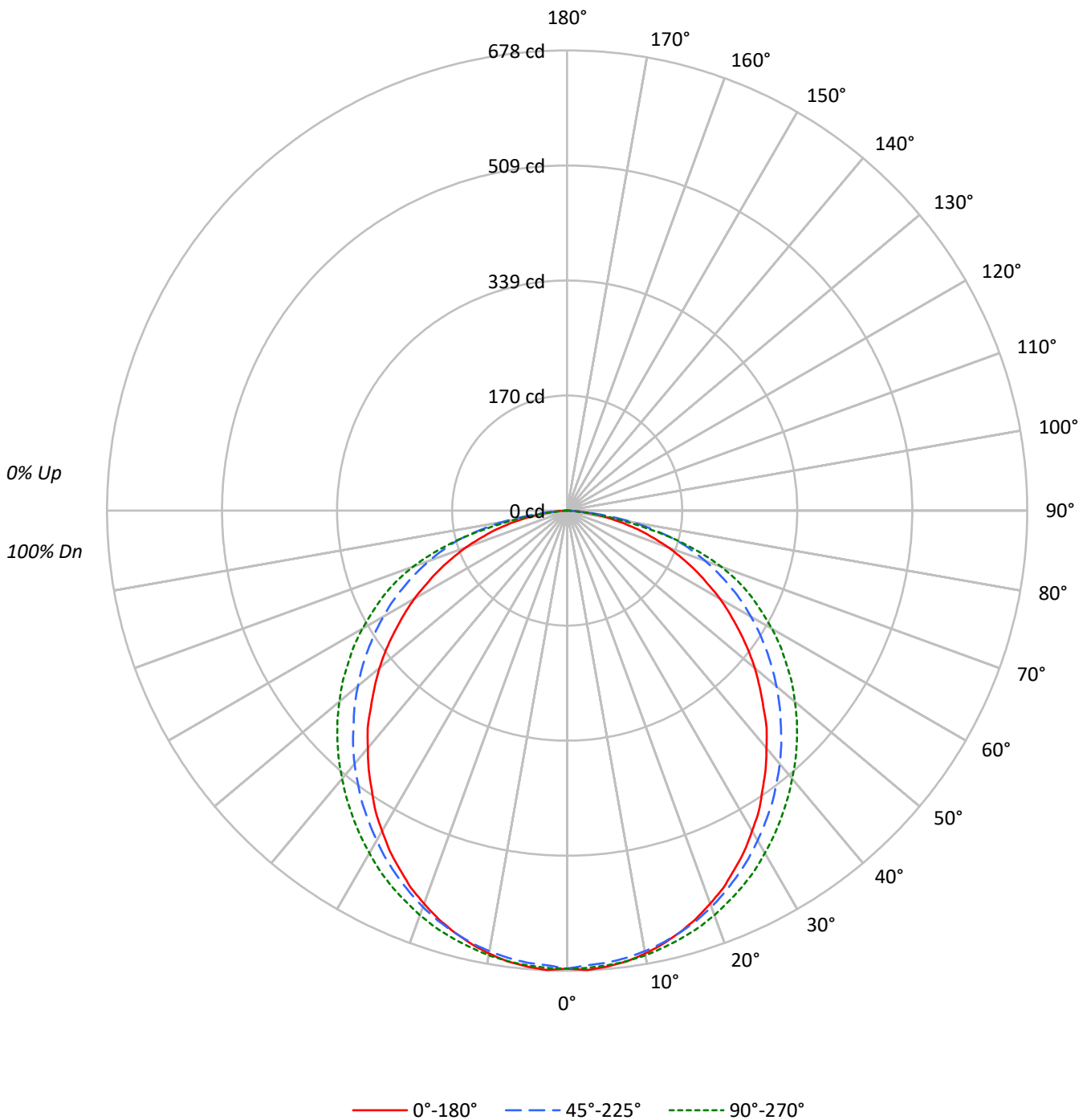
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1816	1816	1816
5°	1822	1807	1817
10°	1811	1801	1818
15°	1791	1792	1817
20°	1765	1780	1816
25°	1732	1762	1814
30°	1694	1744	1811
35°	1649	1729	1809
40°	1605	1713	1812
45°	1556	1694	1822
50°	1510	1686	1834
55°	1453	1681	1850
60°	1401	1683	1876
65°	1330	1688	1905
70°	1248	1701	1904
75°	1131	1717	1722
80°	927	1483	1226
85°	689	701	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.3
10°-20°	182.4	9.3
20°-30°	274.8	14.0
30°-40°	329.8	16.8
40°-50°	343.7	17.5
50°-60°	318.2	16.2
60°-70°	257.1	13.1
70°-80°	156.8	8.0
80°-90°	32.4	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°	521.1	26.6
0°-40°	850.9	43.4
0°-60°	1512.8	77.2
0°-90°	1959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	674	673	669	674	673	64
15°	643	643	643	652	652	181
25°	583	587	594	608	611	269
35°	502	510	526	546	551	314
45°	409	421	445	470	479	316
55°	310	326	358	386	394	277
65°	209	229	265	292	299	206
75°	109	133	165	168	166	114
85°	22	33	23	13	9	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.9	674.9	674.9	674.9	674.9
2.5°	677.5	675.3	670.5	675.3	674.4
5°	674.4	672.7	668.8	673.6	672.7
7.5°	670.1	668.3	664.8	670.5	669.6
10°	662.7	661.8	659.2	665.7	665.3
12.5°	653.9	653.5	652.2	659.6	659.2
15°	643.0	643.4	643.4	652.2	652.2
17.5°	630.8	631.6	633.4	643.0	644.3
20°	616.3	618.1	621.6	632.5	634.3
22.5°	601.5	602.8	608.0	621.2	622.9
25°	583.2	586.6	593.6	608.5	611.1
27.5°	565.7	568.7	578.3	593.6	598.0
30°	545.1	550.0	561.3	577.9	582.7
32.5°	525.5	530.7	543.8	563.1	567.4
35°	501.9	509.8	526.4	545.6	550.8
37.5°	480.5	487.9	506.7	527.7	533.8
40°	456.9	466.1	487.5	509.8	515.9
42.5°	435.1	443.8	467.0	489.7	498.0
45°	408.9	421.1	445.1	470.0	478.8
47.5°	384.8	397.1	424.6	451.2	459.1
50°	360.8	373.9	402.7	430.3	438.1
52.5°	335.9	349.9	380.9	408.4	417.6
55°	309.7	325.9	358.2	386.1	394.4
57.5°	284.8	301.4	335.9	364.3	372.6
60°	260.3	277.4	312.8	339.8	348.6
62.5°	233.3	253.4	290.0	316.7	323.2
65°	208.8	229.3	265.1	291.8	299.2
67.5°	183.0	205.3	241.1	265.6	272.6
70°	158.6	181.7	216.2	238.9	242.0
72.5°	132.4	155.9	190.9	205.3	205.3
75°	108.8	132.8	165.1	167.7	165.6
77.5°	83.0	109.6	130.6	125.4	120.1
80°	59.8	86.1	95.7	86.1	79.1
82.5°	40.2	62.5	57.7	45.9	40.6
85°	22.3	33.2	22.7	12.7	9.2
87.5°	8.3	7.4	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)