

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: P275620

Luminaire Tested: **14CZ2-20-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-S-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2133.0 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

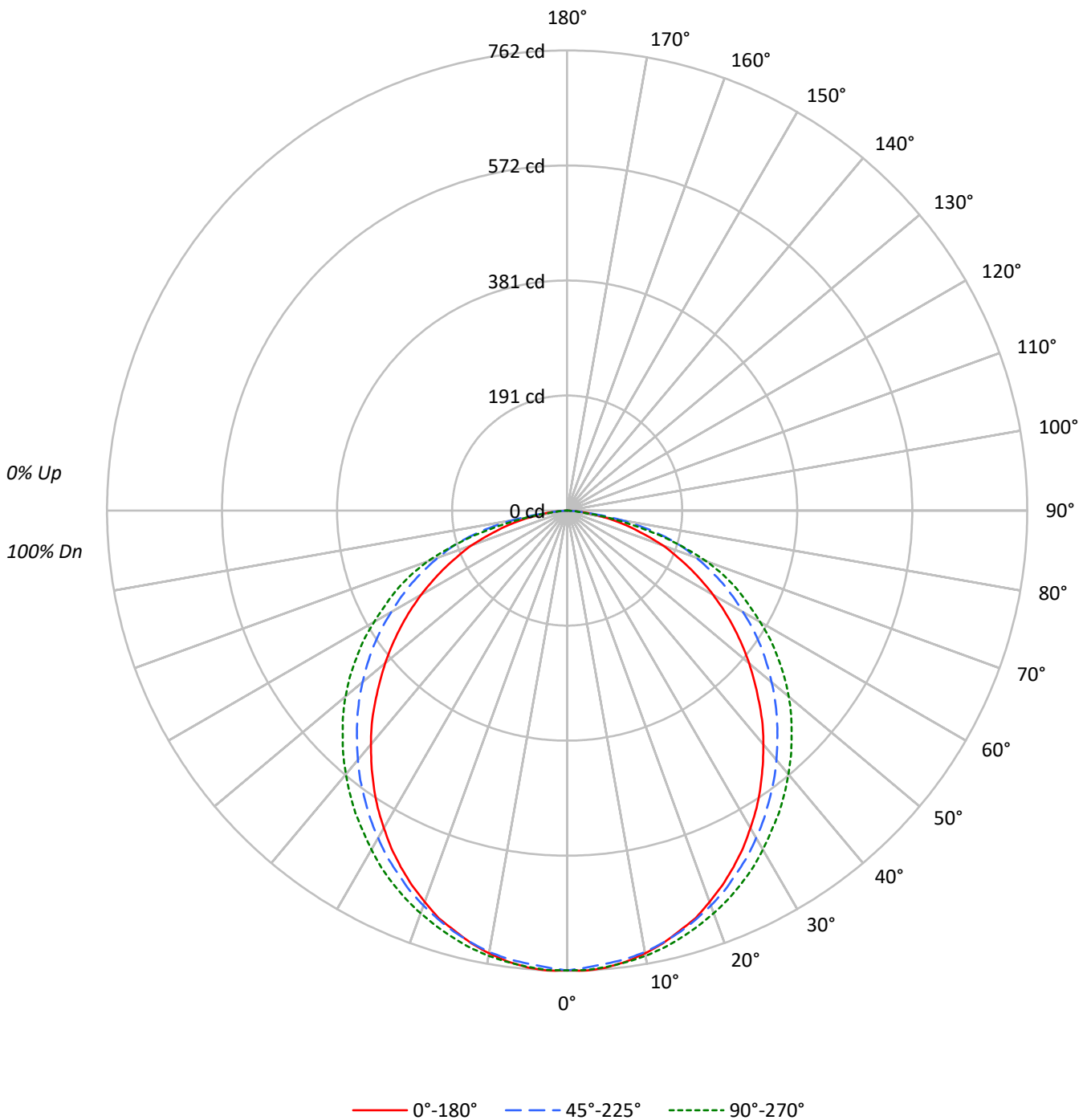
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2049	2049	2049
5°	2051	2034	2048
10°	2034	2029	2046
15°	2006	2012	2039
20°	1975	1993	2032
25°	1934	1969	2025
30°	1886	1945	2014
35°	1834	1918	2008
40°	1776	1895	2002
45°	1711	1872	2000
50°	1647	1851	2006
55°	1578	1836	2000
60°	1503	1810	1986
65°	1414	1805	1987
70°	1331	1789	1931
75°	1154	1749	1649
80°	934	1410	1099
85°	621	491	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.4
10°-20°	204.6	9.6
20°-30°	306.9	14.4
30°-40°	366.1	17.2
40°-50°	378.5	17.7
50°-60°	345.6	16.2
60°-70°	272.0	12.7
70°-80°	158.3	7.4
80°-90°	29.2	1.4
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°	583.4	27.4
0°-40°	949.5	44.5
0°-60°	1673.6	78.5
0°-90°	2133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	759	757	753	759	758	72
15°	720	721	722	732	732	203
25°	652	655	663	679	682	300
35°	558	566	584	606	611	349
45°	450	464	492	519	526	347
55°	336	354	391	420	426	301
65°	222	245	283	306	312	221
75°	111	138	168	165	159	118
85°	20	29	16	13	11	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.4	761.4	761.4	761.4	761.4
2.5°	762.5	760.4	757.2	762.5	761.4
5°	759.3	757.2	753.0	759.3	758.3
7.5°	753.0	750.9	748.8	755.1	754.0
10°	744.5	743.5	742.4	749.8	748.8
12.5°	733.9	733.9	732.9	741.4	741.4
15°	720.2	721.3	722.3	731.8	731.8
17.5°	707.5	706.5	709.6	720.2	721.3
20°	689.5	691.6	695.9	708.6	709.6
22.5°	671.6	673.7	681.1	693.8	696.9
25°	651.5	654.6	663.1	679.0	682.1
27.5°	630.3	634.5	646.2	663.1	666.3
30°	607.0	613.4	626.1	645.1	648.3
32.5°	583.8	590.1	606.0	625.0	629.3
35°	558.4	565.8	583.8	606.0	611.3
37.5°	532.0	541.5	562.6	584.8	591.2
40°	505.5	516.1	539.4	562.6	570.0
42.5°	479.1	489.7	515.0	541.5	548.9
45°	449.5	464.3	491.8	519.3	525.6
47.5°	420.9	436.8	467.4	494.9	503.4
50°	393.4	409.3	442.1	470.6	479.1
52.5°	364.9	381.8	416.7	446.3	453.7
55°	336.3	354.3	391.3	419.9	426.2
57.5°	307.8	326.8	364.9	392.4	399.8
60°	279.2	299.3	336.3	363.8	369.1
62.5°	250.6	271.8	309.9	334.2	339.5
65°	222.1	245.4	283.4	305.6	312.0
67.5°	194.6	217.9	254.9	276.0	281.3
70°	169.2	190.4	227.4	243.2	245.4
72.5°	137.5	163.9	199.9	208.3	203.1
75°	111.0	137.5	168.2	165.0	158.6
77.5°	84.6	111.0	131.1	120.6	112.1
80°	60.3	86.7	91.0	75.1	70.9
82.5°	39.1	60.3	50.8	39.1	31.7
85°	20.1	28.6	15.9	12.7	10.6
87.5°	6.3	4.2	2.1	2.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)