

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: P275388

Luminaire Tested: **14CZ2-20-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275388
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-L83050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1964.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

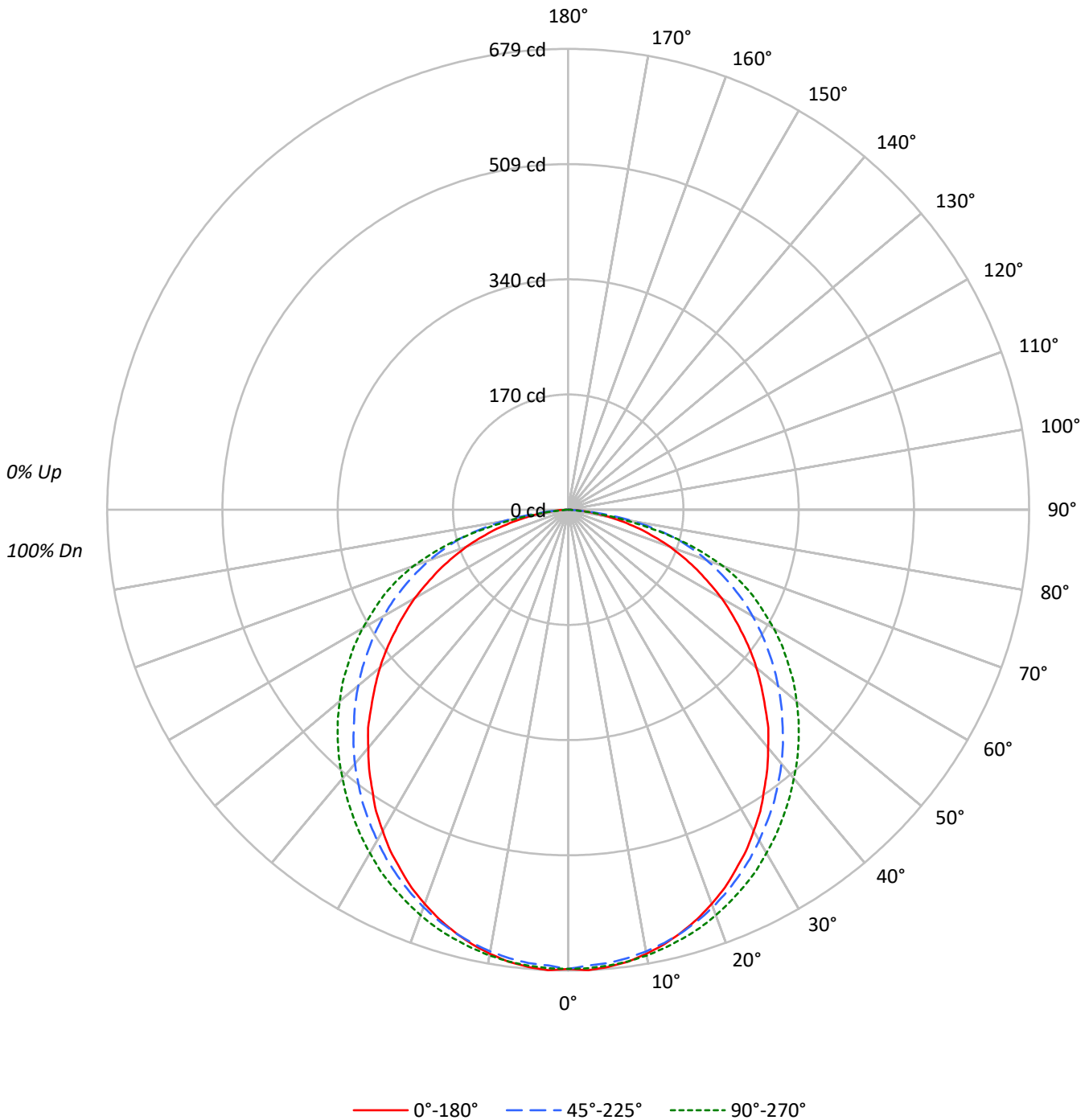
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1821	1821	1821
5°	1827	1811	1822
10°	1815	1806	1823
15°	1796	1797	1821
20°	1769	1785	1821
25°	1736	1767	1819
30°	1698	1748	1815
35°	1653	1734	1814
40°	1609	1717	1817
45°	1560	1698	1827
50°	1514	1690	1839
55°	1457	1685	1856
60°	1405	1688	1881
65°	1333	1692	1910
70°	1251	1706	1909
75°	1133	1721	1726
80°	930	1486	1229
85°	689	704	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.3
10°-20°	182.9	9.3
20°-30°	275.5	14.0
30°-40°	330.6	16.8
40°-50°	344.6	17.5
50°-60°	319.0	16.2
60°-70°	257.8	13.1
70°-80°	157.1	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°	522.4	26.6
0°-40°	853.0	43.4
0°-60°	1516.7	77.2
0°-90°	1964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	677	677	677	677	677	
5°	676	674	670	675	674	64
15°	645	645	645	654	654	182
25°	585	588	595	610	613	269
35°	503	511	528	547	552	315
45°	410	422	446	471	480	317
55°	310	327	359	387	396	278
65°	209	230	266	292	300	207
75°	109	133	166	168	166	115
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°	676.6	676.6	676.6	676.6	676.6
2.5°	679.2	677.0	672.2	677.0	676.2
5°	676.2	674.4	670.5	675.3	674.4
7.5°	671.8	670.0	666.5	672.2	671.3
10°	664.3	663.5	660.8	667.4	667.0
12.5°	655.6	655.1	653.8	661.3	660.8
15°	644.6	645.1	645.1	653.8	653.8
17.5°	632.4	633.2	635.0	644.6	645.9
20°	617.9	619.7	623.2	634.1	635.9
22.5°	603.0	604.3	609.6	622.7	624.5
25°	584.6	588.1	595.1	610.0	612.7
27.5°	567.1	570.2	579.8	595.1	599.5
30°	546.5	551.4	562.7	579.4	584.2
32.5°	526.8	532.1	545.2	564.5	568.9
35°	503.2	511.1	527.7	547.0	552.2
37.5°	481.7	489.2	508.0	529.0	535.2
40°	458.1	467.3	488.7	511.1	517.2
42.5°	436.2	444.9	468.1	490.9	499.2
45°	409.9	422.2	446.3	471.2	480.0
47.5°	385.8	398.1	425.7	452.4	460.3
50°	361.7	374.9	403.8	431.4	439.2
52.5°	336.8	350.8	381.9	409.5	418.7
55°	310.5	326.7	359.1	387.1	395.5
57.5°	285.5	302.2	336.8	365.2	373.6
60°	261.0	278.1	313.6	340.7	349.5
62.5°	233.9	254.0	290.8	317.5	324.1
65°	209.3	229.9	265.8	292.5	300.0
67.5°	183.5	205.8	241.7	266.3	273.3
70°	159.0	182.2	216.8	239.5	242.6
72.5°	132.7	156.3	191.4	205.8	205.8
75°	109.0	133.1	165.5	168.2	166.0
77.5°	83.2	109.9	130.9	125.7	120.4
80°	60.0	86.3	95.9	86.3	79.3
82.5°	40.3	62.6	57.8	46.0	40.7
85°	22.3	33.3	22.8	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)