

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: P275456

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275456
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2172.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

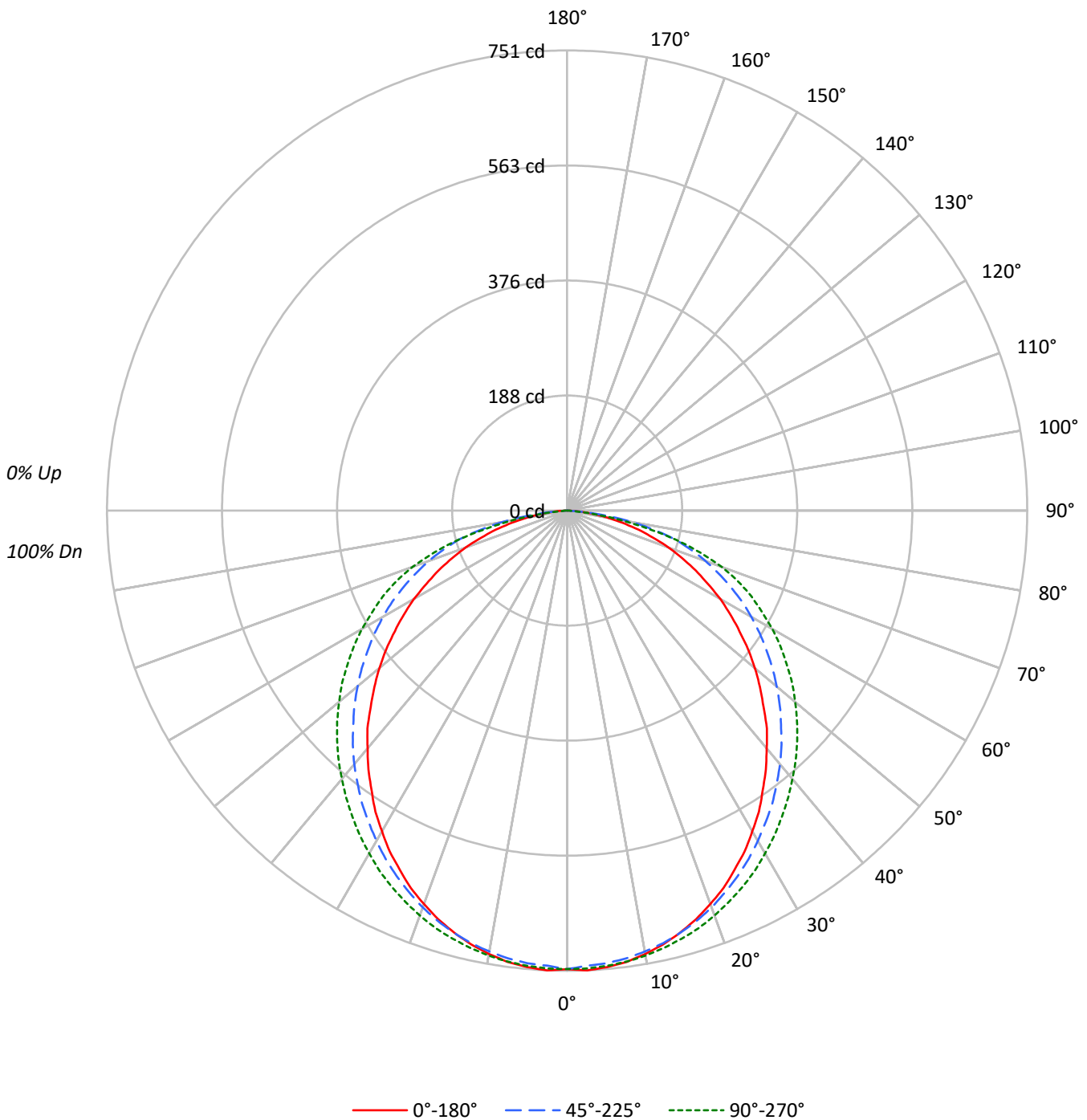
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2014	2014	2014
5°	2020	2003	2015
10°	2008	1997	2015
15°	1986	1987	2014
20°	1957	1974	2014
25°	1920	1954	2012
30°	1878	1934	2008
35°	1828	1917	2006
40°	1780	1899	2009
45°	1725	1878	2020
50°	1675	1869	2034
55°	1611	1863	2052
60°	1553	1866	2080
65°	1474	1872	2113
70°	1383	1886	2111
75°	1254	1904	1909
80°	1029	1644	1359
85°	763	778	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.3
10°-20°	202.3	9.3
20°-30°	304.7	14.0
30°-40°	365.6	16.8
40°-50°	381.1	17.5
50°-60°	352.8	16.2
60°-70°	285.0	13.1
70°-80°	173.8	8.0
80°-90°	35.9	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°	577.8	26.6
0°-40°	943.4	43.4
0°-60°	1677.3	77.2
0°-90°	2172.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	748	746	742	747	746	71
15°	713	713	713	723	723	201
25°	647	650	658	675	678	298
35°	556	565	584	605	611	349
45°	453	467	494	521	531	350
55°	343	361	397	428	437	308
65°	232	254	294	324	332	229
75°	121	147	183	186	184	127
85°	25	37	25	14	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.3	748.3	748.3	748.3	748.3
2.5°	751.2	748.7	743.4	748.7	747.8
5°	747.8	745.8	741.5	746.8	745.8
7.5°	742.9	741.0	737.1	743.4	742.4
10°	734.7	733.7	730.8	738.1	737.6
12.5°	725.0	724.5	723.1	731.3	730.8
15°	712.9	713.4	713.4	723.1	723.1
17.5°	699.3	700.3	702.3	712.9	714.4
20°	683.4	685.3	689.2	701.3	703.2
22.5°	666.9	668.3	674.2	688.7	690.6
25°	646.6	650.4	658.2	674.6	677.6
27.5°	627.2	630.6	641.2	658.2	663.0
30°	604.4	609.7	622.3	640.7	646.1
32.5°	582.6	588.4	603.0	624.3	629.1
35°	556.5	565.2	583.6	604.9	610.7
37.5°	532.7	541.0	561.8	585.0	591.8
40°	506.6	516.8	540.5	565.2	572.0
42.5°	482.4	492.1	517.7	542.9	552.1
45°	453.3	466.9	493.5	521.1	530.8
47.5°	426.7	440.2	470.8	500.3	509.0
50°	400.0	414.6	446.5	477.0	485.8
52.5°	372.4	387.9	422.3	452.8	463.0
55°	343.4	361.3	397.1	428.1	437.3
57.5°	315.8	334.2	372.4	403.9	413.1
60°	288.6	307.5	346.8	376.8	386.5
62.5°	258.6	280.9	321.6	351.1	358.4
65°	231.5	254.3	294.0	323.5	331.8
67.5°	202.9	227.6	267.3	294.5	302.2
70°	175.8	201.5	239.7	264.9	268.3
72.5°	146.7	172.9	211.6	227.6	227.6
75°	120.6	147.2	183.1	186.0	183.6
77.5°	92.0	121.6	144.8	139.0	133.2
80°	66.4	95.4	106.1	95.4	87.7
82.5°	44.6	69.3	63.9	50.9	45.0
85°	24.7	36.8	25.2	14.0	10.2
87.5°	9.2	8.2	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)