

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: P275454

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275454
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-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2161.0 lumens
Efficiency: N/A
Efficacy: 136.7 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

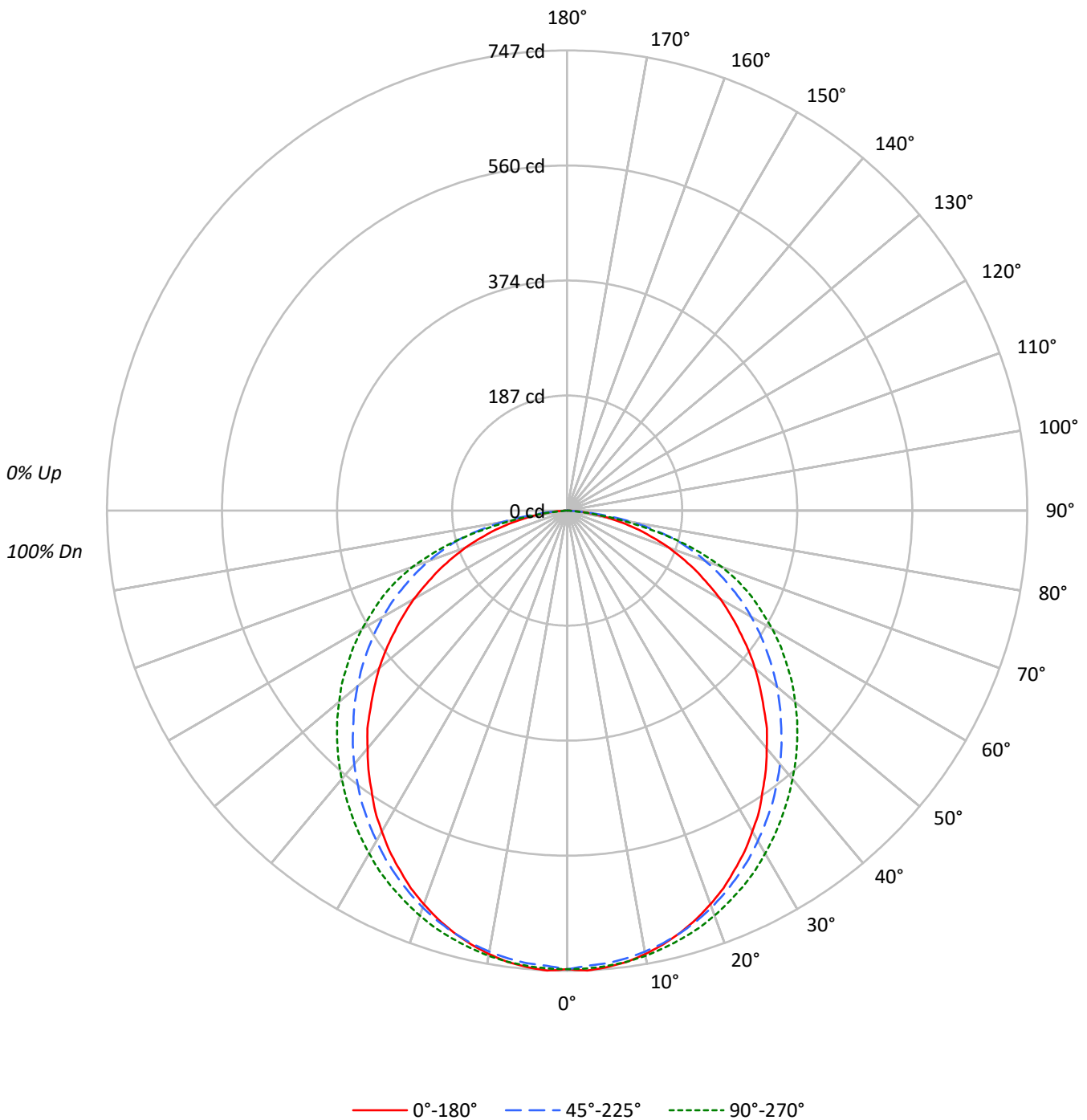
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2003	2003	2003
5°	2010	1993	2005
10°	1997	1987	2005
15°	1976	1977	2004
20°	1947	1964	2004
25°	1910	1944	2002
30°	1869	1924	1997
35°	1819	1907	1996
40°	1770	1889	1999
45°	1716	1869	2010
50°	1666	1860	2023
55°	1603	1854	2041
60°	1546	1857	2069
65°	1466	1862	2102
70°	1376	1876	2100
75°	1248	1893	1899
80°	1023	1635	1351
85°	760	775	312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	3.3
10°-20°	201.2	9.3
20°-30°	303.1	14.0
30°-40°	363.8	16.8
40°-50°	379.2	17.5
50°-60°	351.0	16.2
60°-70°	283.6	13.1
70°-80°	172.9	8.0
80°-90°	35.7	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°	574.8	26.6
0°-40°	938.6	43.4
0°-60°	1668.8	77.2
0°-90°	2161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	742	738	743	742	71
15°	709	710	710	719	719	200
25°	643	647	655	671	674	296
35°	554	562	581	602	608	347
45°	451	464	491	518	528	349
55°	342	360	395	426	435	306
65°	230	253	292	322	330	228
75°	120	146	182	185	183	126
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°	744.5	744.5	744.5	744.5	744.5
2.5°	747.4	745.0	739.7	745.0	744.0
5°	744.0	742.1	737.7	743.0	742.1
7.5°	739.2	737.2	733.4	739.7	738.7
10°	731.0	730.0	727.1	734.4	733.9
12.5°	721.3	720.9	719.4	727.6	727.1
15°	709.3	709.8	709.8	719.4	719.4
17.5°	695.8	696.8	698.7	709.3	710.7
20°	679.9	681.8	685.7	697.7	699.7
22.5°	663.5	665.0	670.7	685.2	687.1
25°	643.3	647.1	654.8	671.2	674.1
27.5°	624.0	627.4	638.0	654.8	659.7
30°	601.4	606.7	619.2	637.5	642.8
32.5°	579.7	585.5	599.9	621.1	625.9
35°	553.7	562.3	580.6	601.8	607.6
37.5°	530.0	538.2	559.0	582.1	588.8
40°	504.0	514.1	537.8	562.3	569.1
42.5°	479.9	489.6	515.1	540.2	549.3
45°	451.0	464.5	491.0	518.5	528.1
47.5°	424.5	438.0	468.4	497.8	506.4
50°	398.0	412.5	444.3	474.6	483.3
52.5°	370.5	386.0	420.2	450.5	460.7
55°	341.6	359.5	395.1	426.0	435.1
57.5°	314.2	332.5	370.5	401.9	411.0
60°	287.2	306.0	345.0	374.9	384.5
62.5°	257.3	279.5	320.0	349.3	356.6
65°	230.3	253.0	292.5	321.9	330.1
67.5°	201.9	226.5	266.0	293.0	300.7
70°	174.9	200.5	238.5	263.6	266.9
72.5°	146.0	172.0	210.6	226.5	226.5
75°	120.0	146.5	182.1	185.0	182.6
77.5°	91.6	120.9	144.1	138.3	132.5
80°	66.0	94.9	105.5	94.9	87.2
82.5°	44.3	68.9	63.6	50.6	44.8
85°	24.6	36.6	25.1	14.0	10.1
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)