

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: P275449

Luminaire Tested: **14CZ2-20-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275449
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-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: 1962.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

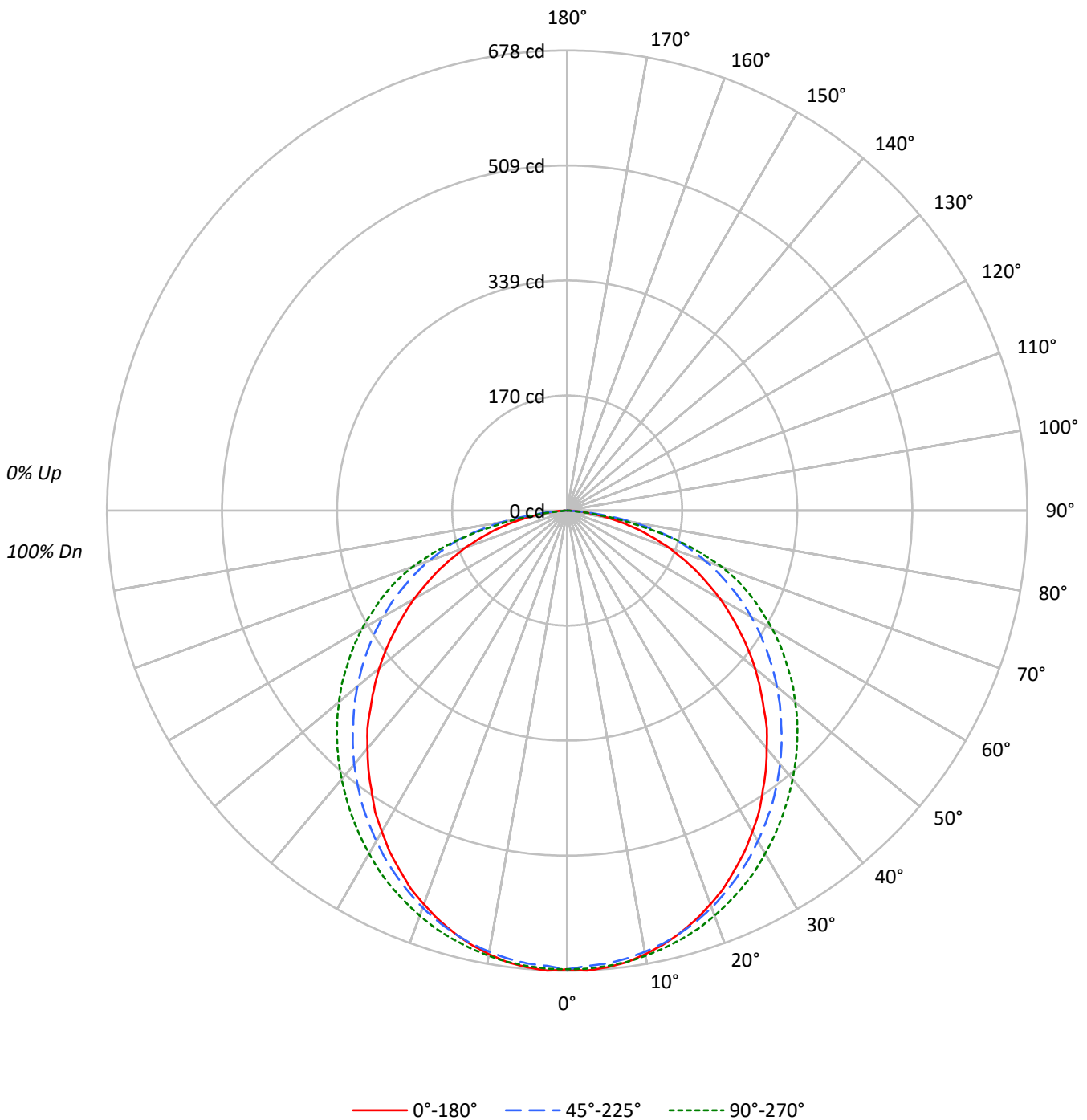
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1819	1819	1819
5°	1825	1809	1820
10°	1814	1804	1821
15°	1794	1795	1820
20°	1768	1783	1819
25°	1734	1765	1817
30°	1697	1747	1813
35°	1651	1732	1812
40°	1607	1715	1815
45°	1558	1697	1825
50°	1513	1689	1837
55°	1455	1683	1853
60°	1403	1686	1879
65°	1331	1691	1908
70°	1249	1704	1907
75°	1132	1720	1724
80°	928	1485	1227
85°	689	701	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.3
10°-20°	182.7	9.3
20°-30°	275.2	14.0
30°-40°	330.3	16.8
40°-50°	344.2	17.5
50°-60°	318.7	16.2
60°-70°	257.5	13.1
70°-80°	157.0	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°	521.9	26.6
0°-40°	852.2	43.4
0°-60°	1515.1	77.2
0°-90°	1962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	676	674	670	675	674	64
15°	644	644	644	653	653	182
25°	584	588	594	609	612	269
35°	503	510	527	546	552	315
45°	410	422	446	471	480	317
55°	310	326	359	387	395	278
65°	209	230	266	292	300	207
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°	675.9	675.9	675.9	675.9	675.9
2.5°	678.5	676.4	671.5	676.4	675.5
5°	675.5	673.7	669.8	674.6	673.7
7.5°	671.1	669.4	665.9	671.5	670.7
10°	663.7	662.8	660.2	666.7	666.3
12.5°	654.9	654.5	653.2	660.6	660.2
15°	644.0	644.4	644.4	653.2	653.2
17.5°	631.7	632.6	634.4	644.0	645.3
20°	617.3	619.0	622.5	633.5	635.2
22.5°	602.4	603.7	609.0	622.1	623.9
25°	584.0	587.5	594.5	609.4	612.0
27.5°	566.5	569.6	579.2	594.5	598.9
30°	546.0	550.8	562.2	578.8	583.6
32.5°	526.3	531.5	544.7	563.9	568.3
35°	502.7	510.5	527.2	546.4	551.7
37.5°	481.2	488.7	507.5	528.5	534.6
40°	457.6	466.8	488.2	510.5	516.7
42.5°	435.7	444.5	467.7	490.4	498.7
45°	409.5	421.7	445.8	470.7	479.5
47.5°	385.4	397.7	425.2	451.9	459.8
50°	361.4	374.5	403.4	430.9	438.8
52.5°	336.4	350.4	381.5	409.0	418.2
55°	310.2	326.4	358.7	386.7	395.0
57.5°	285.2	301.9	336.4	364.9	373.2
60°	260.7	277.8	313.2	340.4	349.1
62.5°	233.6	253.7	290.5	317.2	323.7
65°	209.1	229.7	265.6	292.2	299.7
67.5°	183.3	205.6	241.5	266.0	273.0
70°	158.8	182.0	216.6	239.3	242.4
72.5°	132.6	156.2	191.2	205.6	205.6
75°	108.9	133.0	165.4	168.0	165.8
77.5°	83.1	109.8	130.8	125.6	120.3
80°	59.9	86.2	95.8	86.2	79.2
82.5°	40.2	62.6	57.7	45.9	40.7
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)