

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: P275617

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275617
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-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

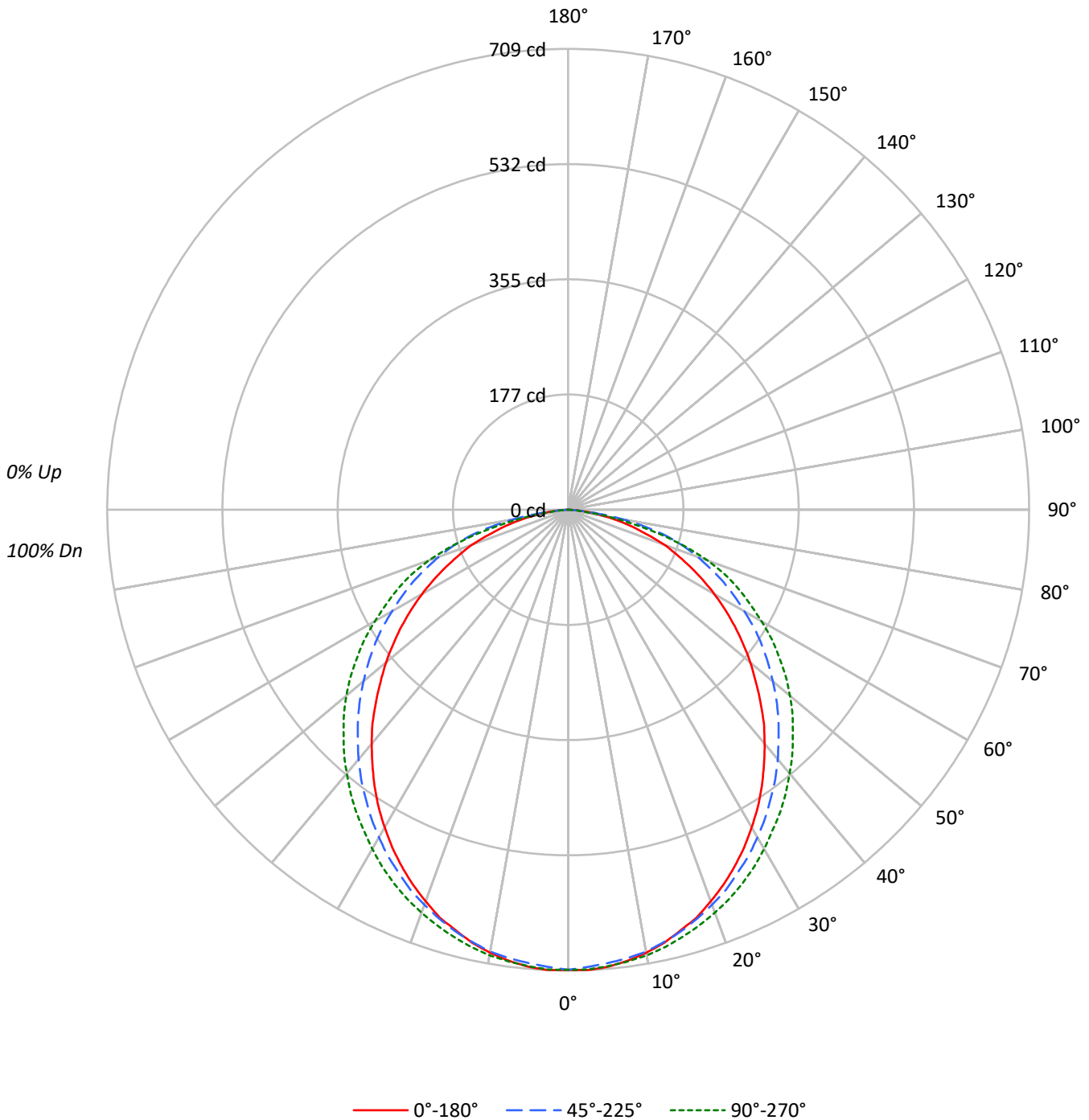
Input Watts (W): 15.252
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1905	1905	1905
5°	1907	1891	1904
10°	1891	1886	1902
15°	1865	1871	1896
20°	1836	1853	1889
25°	1798	1830	1883
30°	1754	1808	1873
35°	1705	1783	1867
40°	1651	1761	1861
45°	1590	1740	1859
50°	1531	1721	1865
55°	1467	1707	1859
60°	1397	1683	1847
65°	1315	1678	1847
70°	1238	1663	1795
75°	1073	1625	1534
80°	868	1311	1021
85°	577	454	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	3.4
10°-20°	190.2	9.6
20°-30°	285.3	14.4
30°-40°	340.4	17.2
40°-50°	351.9	17.7
50°-60°	321.3	16.2
60°-70°	252.8	12.7
70°-80°	147.2	7.4
80°-90°	27.1	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°	542.4	27.4
0°-40°	882.8	44.5
0°-60°	1555.9	78.5
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	706	704	700	706	705	67
15°	670	670	672	680	680	189
25°	606	609	616	631	634	279
35°	519	526	543	563	568	324
45°	418	432	457	483	489	323
55°	313	329	364	390	396	280
65°	206	228	264	284	290	205
75°	103	128	156	153	148	110
85°	19	26	15	12	10	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.9	707.9	707.9	707.9	707.9
2.5°	708.9	706.9	704.0	708.9	707.9
5°	705.9	704.0	700.0	705.9	704.9
7.5°	700.0	698.1	696.1	702.0	701.0
10°	692.2	691.2	690.2	697.1	696.1
12.5°	682.3	682.3	681.4	689.2	689.2
15°	669.6	670.5	671.5	680.4	680.4
17.5°	657.8	656.8	659.7	669.6	670.5
20°	641.0	643.0	646.9	658.7	659.7
22.5°	624.3	626.3	633.2	645.0	647.9
25°	605.6	608.6	616.5	631.2	634.2
27.5°	586.0	589.9	600.7	616.5	619.4
30°	564.4	570.3	582.0	599.7	602.7
32.5°	542.7	548.6	563.4	581.1	585.0
35°	519.1	526.0	542.7	563.4	568.3
37.5°	494.5	503.4	523.1	543.7	549.6
40°	470.0	479.8	501.4	523.1	529.9
42.5°	445.4	455.2	478.8	503.4	510.3
45°	417.9	431.6	457.2	482.7	488.6
47.5°	391.3	406.1	434.6	460.1	468.0
50°	365.7	380.5	411.0	437.5	445.4
52.5°	339.2	354.9	387.4	414.9	421.8
55°	312.7	329.4	363.8	390.3	396.2
57.5°	286.1	303.8	339.2	364.8	371.6
60°	259.6	278.2	312.7	338.2	343.1
62.5°	233.0	252.7	288.1	310.7	315.6
65°	206.5	228.1	263.5	284.1	290.0
67.5°	180.9	202.5	236.9	256.6	261.5
70°	157.3	177.0	211.4	226.1	228.1
72.5°	127.8	152.4	185.8	193.7	188.8
75°	103.2	127.8	156.3	153.4	147.5
77.5°	78.7	103.2	121.9	112.1	104.2
80°	56.0	80.6	84.6	69.8	65.9
82.5°	36.4	56.0	47.2	36.4	29.5
85°	18.7	26.5	14.7	11.8	9.8
87.5°	5.9	3.9	2.0	2.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)