

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: P275423

Luminaire Tested: **14CZ2-25-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275423
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: 14CZ2-25-UNV-L93050-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1887.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

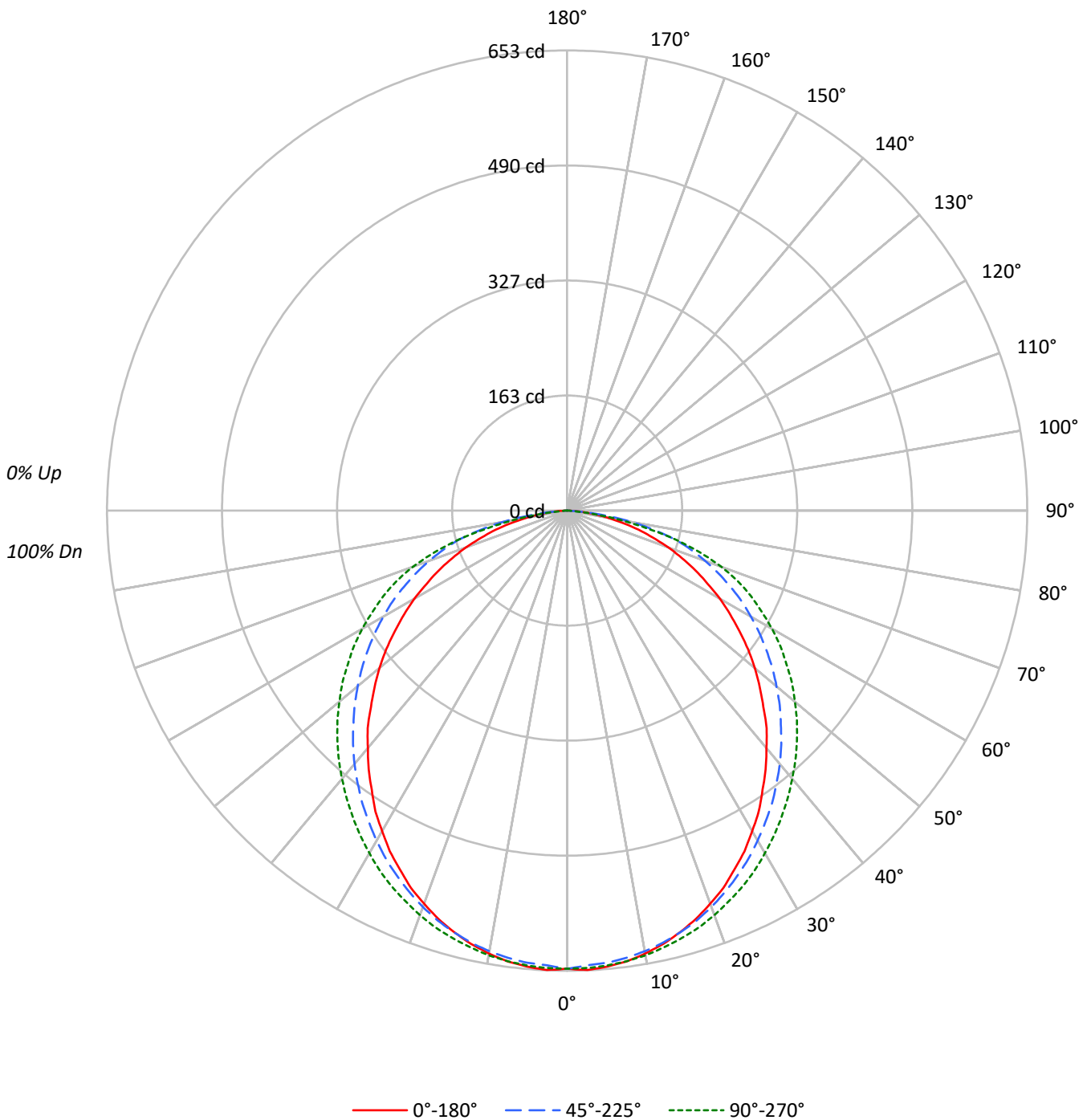
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1749	1749	1749
5°	1755	1740	1750
10°	1744	1735	1751
15°	1726	1727	1750
20°	1700	1714	1749
25°	1668	1698	1748
30°	1632	1680	1744
35°	1588	1666	1743
40°	1546	1650	1746
45°	1499	1632	1755
50°	1455	1624	1767
55°	1399	1619	1782
60°	1350	1622	1807
65°	1280	1626	1835
70°	1201	1639	1834
75°	1090	1653	1658
80°	893	1427	1181
85°	664	676	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.3
10°-20°	175.7	9.3
20°-30°	264.7	14.0
30°-40°	317.7	16.8
40°-50°	331.1	17.5
50°-60°	306.5	16.2
60°-70°	247.7	13.1
70°-80°	151.0	8.0
80°-90°	31.2	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°	501.9	26.6
0°-40°	819.6	43.4
0°-60°	1457.2	77.2
0°-90°	1887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	650	650	650	650	650	
5°	650	648	644	649	648	62
15°	619	620	620	628	628	175
25°	562	565	572	586	589	259
35°	484	491	507	526	531	303
45°	394	406	429	453	461	304
55°	298	314	345	372	380	267
65°	201	221	255	281	288	199
75°	105	128	159	162	160	110
85°	22	32	22	12	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	650.1	650.1	650.1	650.1	650.1
2.5°	652.6	650.5	645.9	650.5	649.7
5°	649.7	648.0	644.2	648.8	648.0
7.5°	645.4	643.8	640.4	645.9	645.0
10°	638.3	637.5	634.9	641.2	640.8
12.5°	629.9	629.5	628.2	635.4	634.9
15°	619.4	619.8	619.8	628.2	628.2
17.5°	607.6	608.4	610.1	619.4	620.6
20°	593.7	595.4	598.7	609.3	610.9
22.5°	579.4	580.7	585.7	598.3	600.0
25°	561.7	565.1	571.8	586.1	588.6
27.5°	544.9	547.8	557.1	571.8	576.0
30°	525.1	529.7	540.7	556.7	561.3
32.5°	506.2	511.2	523.8	542.4	546.6
35°	483.5	491.0	507.0	525.5	530.6
37.5°	462.8	470.0	488.1	508.3	514.2
40°	440.1	449.0	469.6	491.0	496.9
42.5°	419.1	427.5	449.8	471.7	479.7
45°	393.8	405.6	428.8	452.7	461.2
47.5°	370.7	382.5	409.0	434.6	442.2
50°	347.5	360.2	387.9	414.5	422.0
52.5°	323.6	337.0	366.9	393.4	402.2
55°	298.3	313.9	345.0	372.0	379.9
57.5°	274.3	290.3	323.6	350.9	358.9
60°	250.8	267.2	301.3	327.4	335.8
62.5°	224.7	244.0	279.4	305.1	311.4
65°	201.1	220.9	255.4	281.1	288.2
67.5°	176.3	197.8	232.3	255.8	262.6
70°	152.7	175.0	208.3	230.2	233.1
72.5°	127.5	150.2	183.9	197.8	197.8
75°	104.8	127.9	159.0	161.6	159.5
77.5°	79.9	105.6	125.8	120.8	115.7
80°	57.6	82.9	92.1	82.9	76.2
82.5°	38.7	60.2	55.5	44.2	39.1
85°	21.5	32.0	21.9	12.2	8.8
87.5°	8.0	7.2	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)