

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: P275752

Luminaire Tested: **14CZ2-44-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2925.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

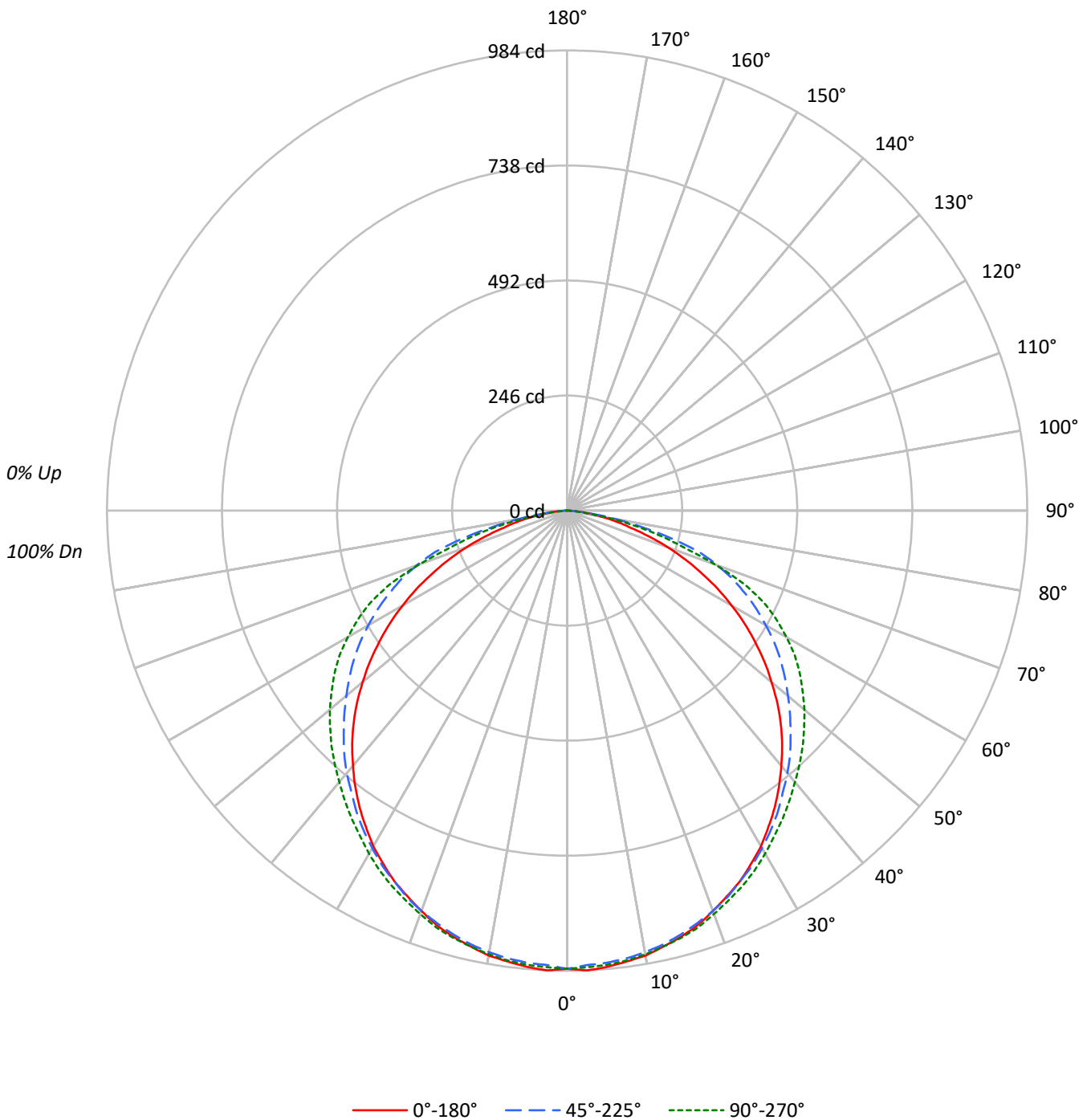
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2636	2636	2636
5°	2646	2622	2634
10°	2640	2621	2633
15°	2627	2615	2634
20°	2609	2609	2629
25°	2597	2597	2631
30°	2576	2590	2632
35°	2543	2581	2641
40°	2503	2575	2663
45°	2460	2572	2712
50°	2390	2581	2772
55°	2304	2614	2850
60°	2188	2643	2913
65°	2021	2676	2952
70°	1797	2695	2641
75°	1448	2421	2113
80°	1133	1698	1381
85°	775	494	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.7	3.2
10°-20°	266.0	9.1
20°-30°	405.1	13.8
30°-40°	493.4	16.9
40°-50°	523.5	17.9
50°-60°	494.0	16.9
60°-70°	398.9	13.6
70°-80°	216.4	7.4
80°-90°	35.0	1.2
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°	763.8	26.1
0°-40°	1257.2	43.0
0°-60°	2274.7	77.8
0°-90°	2925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	980	977	970	977	975	93
15°	943	941	939	945	945	266
25°	875	872	875	884	886	403
35°	774	779	786	802	804	484
45°	646	655	676	701	712	498
55°	491	512	557	594	607	439
65°	317	356	420	454	464	315
75°	139	203	233	210	203	152
85°	25	27	16	14	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	979.7	979.7	979.7	979.7	979.7
2.5°	984.2	979.7	972.8	979.7	977.4
5°	979.7	977.4	970.5	977.4	975.1
7.5°	972.8	972.8	966.0	970.5	970.5
10°	966.0	963.7	959.1	966.0	963.7
12.5°	954.5	952.3	950.0	956.8	954.5
15°	943.1	940.8	938.6	945.4	945.4
17.5°	929.4	927.1	924.9	934.0	934.0
20°	911.1	911.1	911.1	920.3	918.0
22.5°	892.9	892.9	895.2	904.3	902.0
25°	874.6	872.3	874.6	883.7	886.0
27.5°	851.8	854.1	856.3	865.5	867.8
30°	828.9	831.2	833.5	844.9	847.2
32.5°	801.5	806.1	810.7	824.4	824.4
35°	774.1	778.7	785.6	801.5	803.8
37.5°	744.4	749.0	758.1	776.4	781.0
40°	712.5	719.3	733.0	751.3	758.1
42.5°	680.5	689.6	705.6	726.2	735.3
45°	646.3	655.4	675.9	701.1	712.5
47.5°	609.7	621.1	646.3	678.2	687.4
50°	570.9	586.9	616.6	650.8	662.2
52.5°	532.1	550.3	586.9	623.4	634.8
55°	491.0	511.5	557.2	593.7	607.4
57.5°	449.9	472.7	525.2	564.0	577.7
60°	406.5	433.9	491.0	529.8	541.2
62.5°	363.1	395.1	456.7	495.5	504.7
65°	317.4	356.2	420.2	454.4	463.6
67.5°	274.0	319.7	383.6	408.8	408.8
70°	228.4	278.6	342.5	349.4	335.7
72.5°	182.7	239.8	296.9	271.7	260.3
75°	139.3	203.2	232.9	210.1	203.2
77.5°	105.0	164.4	164.4	150.7	146.1
80°	73.1	125.6	109.6	95.9	89.1
82.5°	48.0	70.8	57.1	45.7	38.8
85°	25.1	27.4	16.0	13.7	11.4
87.5°	9.1	4.6	2.3	4.6	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)