

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: P258882

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1863.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

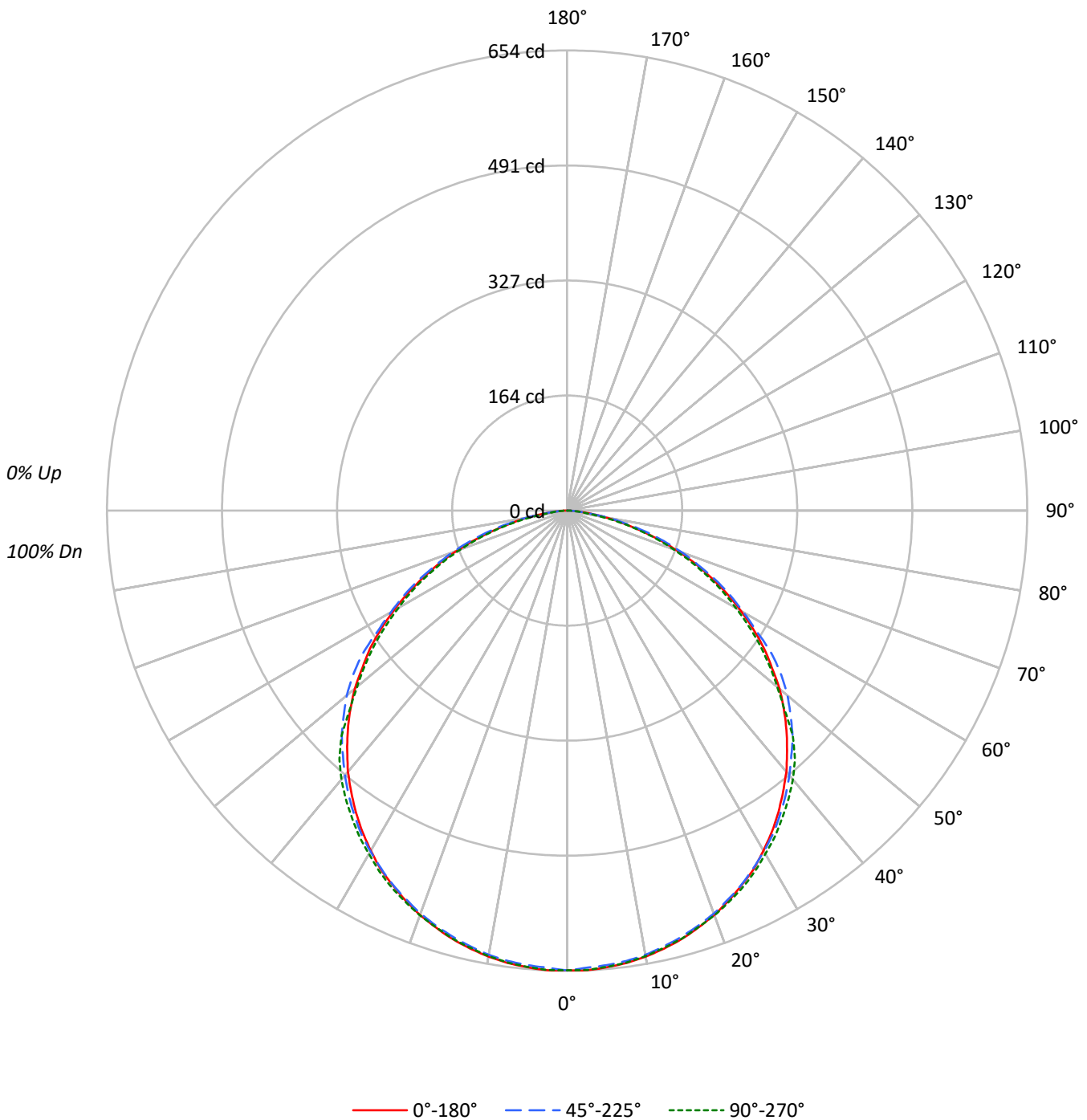
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1758	1758	1758
5°	1760	1752	1758
10°	1759	1752	1757
15°	1756	1748	1754
20°	1751	1746	1753
25°	1743	1742	1754
30°	1734	1738	1751
35°	1719	1734	1751
40°	1702	1725	1753
45°	1678	1724	1726
50°	1650	1711	1632
55°	1604	1666	1573
60°	1536	1559	1490
65°	1438	1477	1400
70°	1309	1362	1266
75°	1092	1194	1073
80°	866	913	744
85°	562	488	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	3.3
10°-20°	177.7	9.5
20°-30°	271.2	14.6
30°-40°	330.6	17.7
40°-50°	346.2	18.6
50°-60°	308.0	16.5
60°-70°	227.2	12.2
70°-80°	117.4	6.3
80°-90°	22.8	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°	510.7	27.4
0°-40°	841.3	45.2
0°-60°	1495.5	80.3
0°-90°	1863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	653	653	653	653	653	
5°	652	651	648	651	651	62
15°	630	630	627	630	630	178
25°	587	587	587	591	591	271
35°	523	524	528	534	533	327
45°	441	444	453	457	454	340
55°	342	349	355	340	335	305
65°	226	242	232	224	220	224
75°	105	116	115	106	103	114
85°	18	20	16	15	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	653.4	653.4	653.4	653.4	653.4
2.5°	654.0	653.4	650.3	653.4	653.4
5°	651.5	650.9	648.5	650.9	650.9
7.5°	648.5	647.9	645.5	647.9	647.9
10°	643.6	643.0	641.2	643.6	643.0
12.5°	637.6	637.6	634.5	637.6	636.4
15°	630.3	629.7	627.3	629.7	629.7
17.5°	621.2	620.6	618.8	621.8	620.6
20°	611.5	610.9	609.6	612.7	612.1
22.5°	599.9	599.9	598.1	601.7	601.7
25°	587.2	587.2	586.6	590.8	590.8
27.5°	574.4	573.2	573.2	577.5	578.1
30°	558.0	558.0	559.2	564.1	563.5
32.5°	541.6	542.2	544.7	548.9	549.5
35°	523.4	524.0	527.7	533.7	533.1
37.5°	504.0	505.8	510.1	516.7	516.7
40°	484.6	485.8	491.2	498.5	499.1
42.5°	462.7	465.7	471.8	480.3	479.1
45°	440.8	443.9	453.0	457.2	453.6
47.5°	417.8	421.4	430.5	431.1	419.0
50°	394.1	398.3	408.7	396.5	389.8
52.5°	366.8	374.7	383.8	366.8	362.5
55°	341.9	349.1	355.2	340.0	335.2
57.5°	313.9	323.6	319.4	312.1	306.0
60°	285.4	295.7	289.6	282.4	276.9
62.5°	256.2	267.8	261.7	254.4	249.6
65°	225.9	241.7	232.0	224.1	219.8
67.5°	197.3	212.5	201.0	194.9	190.7
70°	166.4	179.1	173.1	165.2	160.9
72.5°	136.0	145.7	143.9	135.4	132.4
75°	105.0	116.0	114.8	105.7	103.2
77.5°	78.9	89.3	85.6	78.3	75.3
80°	55.9	62.5	58.9	50.4	48.0
82.5°	34.0	39.5	33.4	28.5	26.1
85°	18.2	20.0	15.8	14.6	14.0
87.5°	6.7	6.7	6.7	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)