

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: P258913

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258913
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-L93050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1676.0 lumens
Efficiency: N/A
Efficacy: 74.2 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

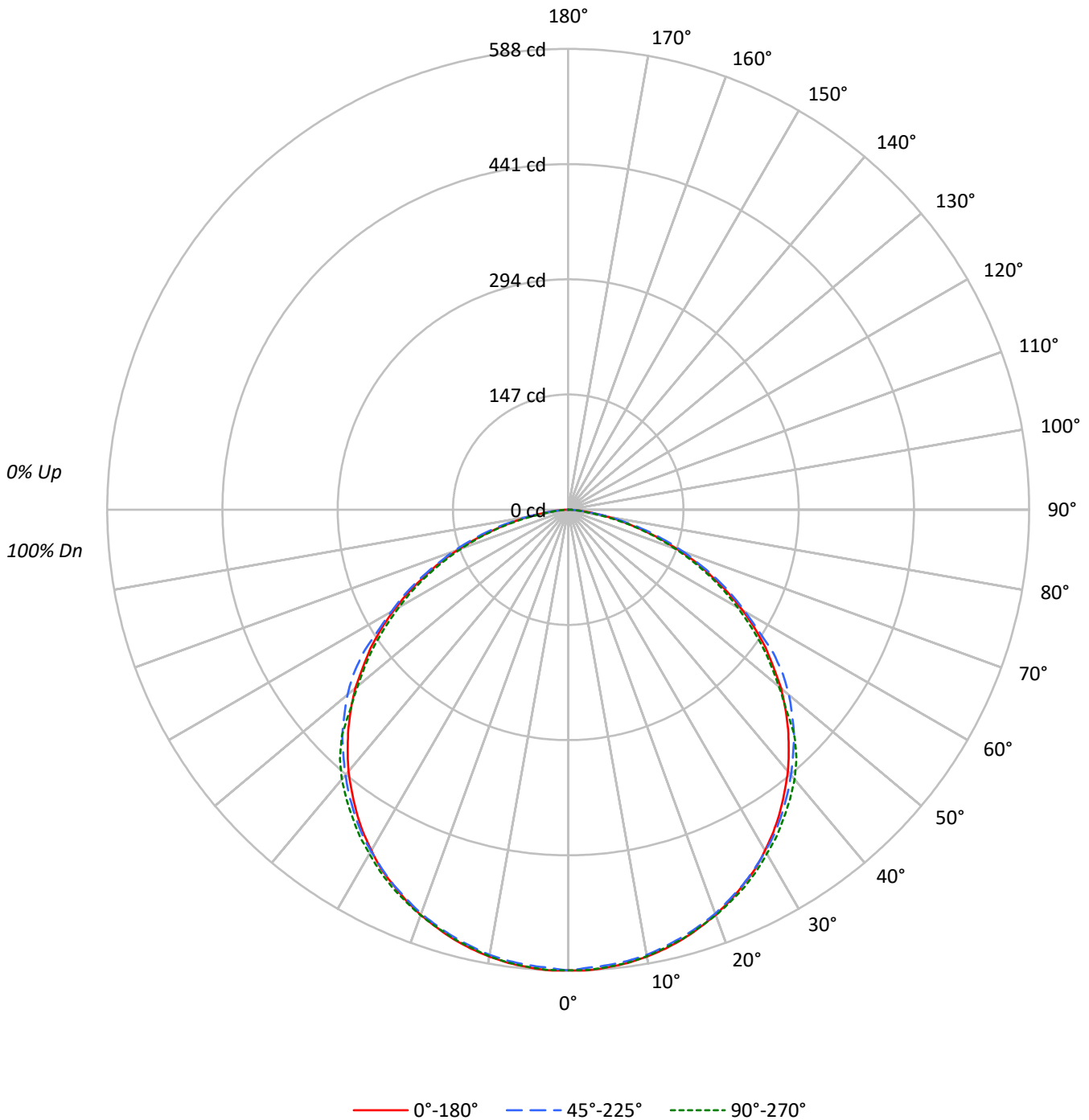
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1582	1582	1582
5°	1583	1576	1582
10°	1582	1576	1581
15°	1580	1572	1578
20°	1575	1570	1577
25°	1568	1567	1578
30°	1560	1563	1575
35°	1547	1559	1576
40°	1531	1552	1577
45°	1509	1551	1553
50°	1484	1539	1468
55°	1443	1499	1415
60°	1382	1403	1341
65°	1294	1329	1259
70°	1178	1225	1139
75°	983	1073	966
80°	779	821	669
85°	506	438	389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	3.3
10°-20°	159.8	9.5
20°-30°	244.0	14.6
30°-40°	297.5	17.7
40°-50°	311.4	18.6
50°-60°	277.1	16.5
60°-70°	204.4	12.2
70°-80°	105.6	6.3
80°-90°	20.5	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°	459.4	27.4
0°-40°	756.9	45.2
0°-60°	1345.4	80.3
0°-90°	1676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	586	586	583	586	586	56
15°	567	566	564	566	566	160
25°	528	528	528	532	532	244
35°	471	471	475	480	480	295
45°	397	399	408	411	408	306
55°	308	314	320	306	302	274
65°	203	217	209	202	198	201
75°	94	104	103	95	93	102
85°	16	18	14	13	13	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.8	587.8	587.8	587.8	587.8
2.5°	588.3	587.8	585.0	587.8	587.8
5°	586.1	585.6	583.4	585.6	585.6
7.5°	583.4	582.9	580.7	582.9	582.9
10°	579.0	578.5	576.9	579.0	578.5
12.5°	573.6	573.6	570.8	573.6	572.5
15°	567.0	566.5	564.3	566.5	566.5
17.5°	558.8	558.3	556.6	559.4	558.3
20°	550.1	549.5	548.4	551.2	550.6
22.5°	539.7	539.7	538.1	541.3	541.3
25°	528.2	528.2	527.7	531.5	531.5
27.5°	516.8	515.7	515.7	519.5	520.0
30°	502.0	502.0	503.1	507.5	506.9
32.5°	487.3	487.8	490.0	493.8	494.4
35°	470.9	471.4	474.7	480.2	479.6
37.5°	453.4	455.0	458.9	464.9	464.9
40°	435.9	437.0	441.9	448.5	449.0
42.5°	416.3	419.0	424.4	432.1	431.0
45°	396.6	399.3	407.5	411.3	408.1
47.5°	375.8	379.1	387.3	387.8	376.9
50°	354.5	358.3	367.6	356.7	350.7
52.5°	329.9	337.0	345.2	329.9	326.1
55°	307.5	314.1	319.6	305.9	301.5
57.5°	282.4	291.2	287.3	280.8	275.3
60°	256.7	266.0	260.6	254.0	249.1
62.5°	230.5	240.9	235.4	228.9	224.5
65°	203.2	217.4	208.7	201.6	197.7
67.5°	177.5	191.2	180.8	175.4	171.5
70°	149.7	161.1	155.7	148.6	144.8
72.5°	122.4	131.1	129.5	121.8	119.1
75°	94.5	104.3	103.2	95.0	92.9
77.5°	71.0	80.3	77.0	70.5	67.7
80°	50.3	56.3	53.0	45.3	43.2
82.5°	30.6	35.5	30.0	25.7	23.5
85°	16.4	18.0	14.2	13.1	12.6
87.5°	6.0	6.0	6.0	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)