

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: P258651

Luminaire Tested: **14CZ-LD5-20-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-20-UNV-L92765-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1718.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

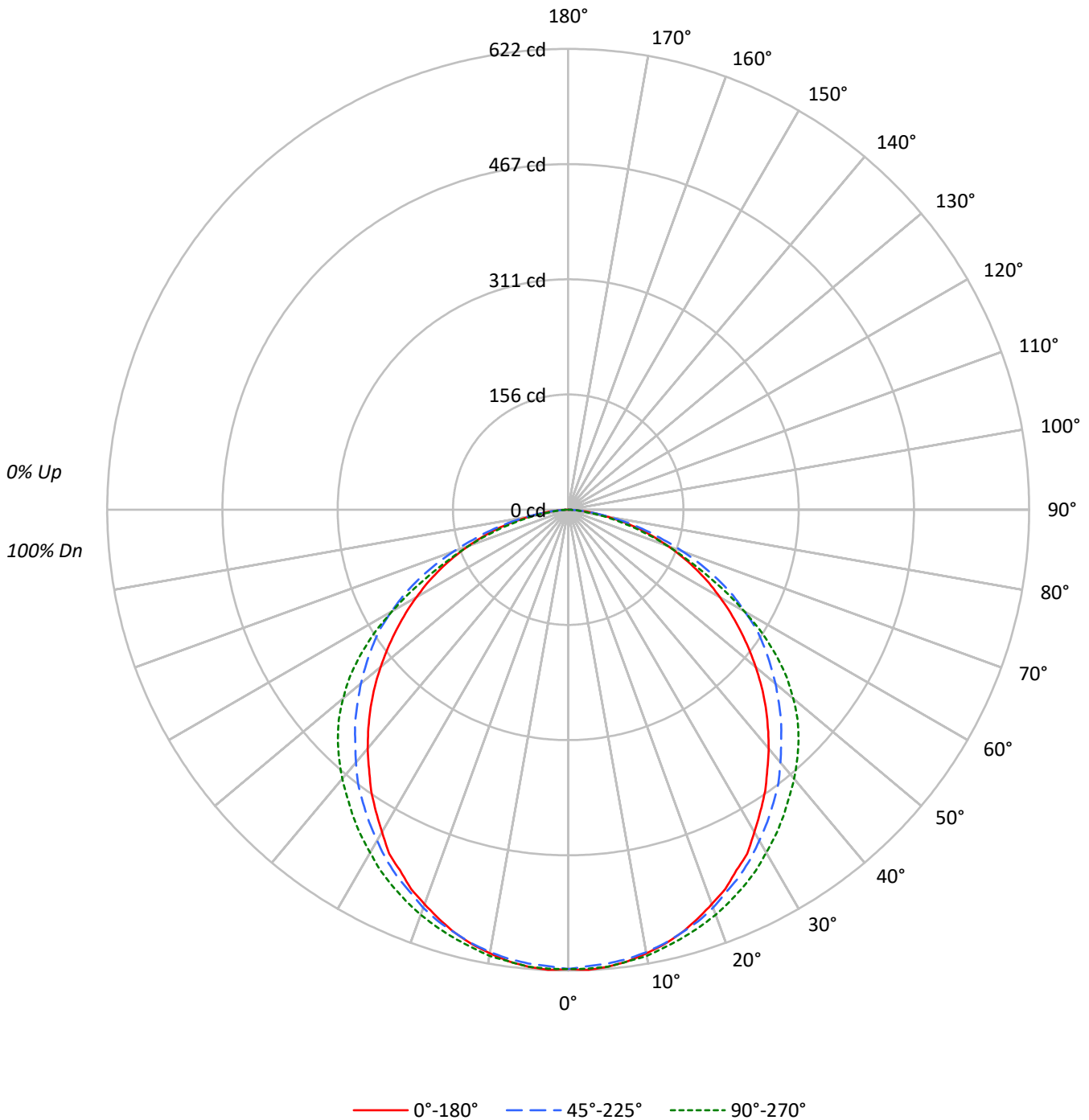
Input Watts (W): 15.159
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1668	1668	1668
5°	1672	1661	1672
10°	1662	1657	1671
15°	1647	1647	1666
20°	1623	1637	1666
25°	1594	1622	1665
30°	1560	1603	1661
35°	1522	1586	1661
40°	1479	1565	1666
45°	1434	1547	1673
50°	1383	1528	1659
55°	1327	1514	1605
60°	1272	1482	1477
65°	1214	1419	1294
70°	1126	1293	1120
75°	1021	1127	924
80°	814	893	682
85°	574	497	392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	3.4
10°-20°	167.6	9.8
20°-30°	252.7	14.7
30°-40°	302.9	17.6
40°-50°	314.3	18.3
50°-60°	283.5	16.5
60°-70°	206.8	12.0
70°-80°	108.5	6.3
80°-90°	23.1	1.3
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°	478.9	27.9
0°-40°	781.8	45.5
0°-60°	1379.6	80.3
0°-90°	1718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	619	617	615	619	619	59
15°	591	591	591	598	598	167
25°	537	540	546	558	561	248
35°	463	468	483	501	506	289
45°	377	384	406	431	440	291
55°	283	293	323	344	342	253
65°	191	202	223	214	203	188
75°	98	112	108	94	89	103
85°	19	23	16	14	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.0	620.0	620.0	620.0	620.0
2.5°	621.7	620.0	616.6	620.0	620.0
5°	619.1	617.4	614.9	619.1	619.1
7.5°	614.9	613.2	611.5	615.7	614.9
10°	608.1	607.3	606.4	611.5	611.5
12.5°	600.5	600.5	599.7	605.6	604.7
15°	591.2	591.2	591.2	598.0	598.0
17.5°	579.3	581.0	582.7	590.3	590.3
20°	566.6	568.3	571.7	581.0	581.9
22.5°	553.9	554.8	558.1	569.2	571.7
25°	537.0	539.5	546.3	558.1	560.7
27.5°	523.4	524.3	531.9	545.4	548.8
30°	502.2	508.2	515.8	531.0	534.4
32.5°	482.8	487.9	499.7	515.8	520.9
35°	463.3	468.4	482.8	500.6	505.6
37.5°	441.3	448.9	465.8	483.6	489.5
40°	420.9	427.7	445.5	467.5	474.3
42.5°	398.9	405.7	425.2	449.7	457.4
45°	376.9	384.5	406.5	431.1	439.6
47.5°	354.0	362.5	385.4	412.5	420.1
50°	330.3	339.6	365.0	393.0	396.4
52.5°	306.6	316.8	343.9	368.4	371.8
55°	282.9	293.0	322.7	343.9	342.2
57.5°	260.0	271.0	301.5	312.5	310.8
60°	236.3	248.2	275.3	280.3	274.4
62.5°	214.3	225.3	250.7	246.5	238.8
65°	190.6	201.6	222.8	214.3	203.3
67.5°	166.9	180.4	194.0	179.6	171.1
70°	143.1	158.4	164.3	149.9	142.3
72.5°	120.3	136.4	134.7	120.3	115.2
75°	98.2	111.8	108.4	94.0	88.9
77.5°	74.5	89.8	82.2	70.3	66.1
80°	52.5	66.1	57.6	47.4	44.0
82.5°	34.7	44.0	35.6	27.9	25.4
85°	18.6	22.9	16.1	13.6	12.7
87.5°	7.6	6.8	5.9	5.9	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)