

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: P258650

Luminaire Tested: **14CZ-LD5-20-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258650
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-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1652.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

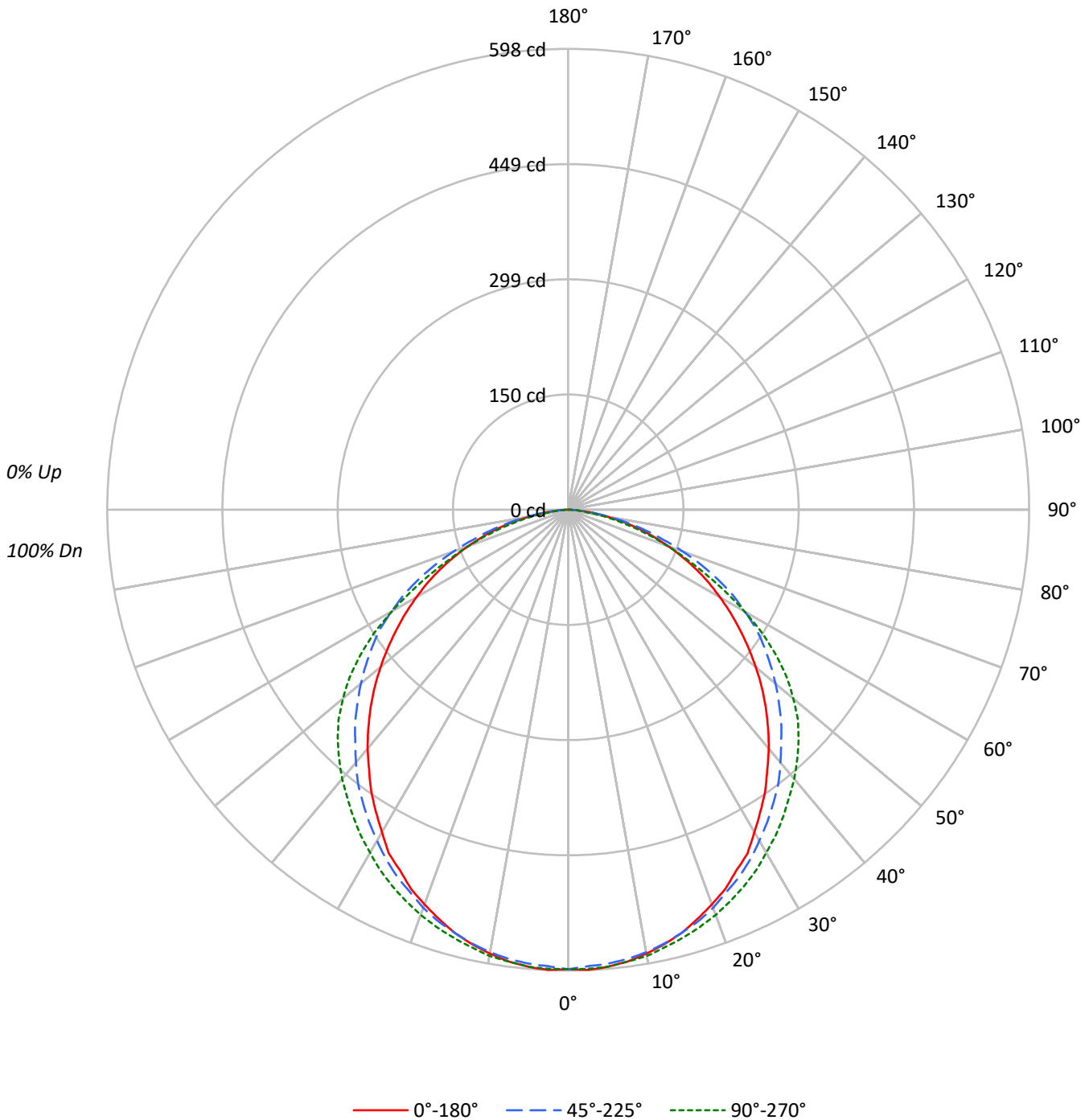
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1604	1604	1604
5°	1608	1597	1608
10°	1598	1593	1607
15°	1584	1584	1602
20°	1560	1574	1602
25°	1533	1560	1601
30°	1501	1541	1597
35°	1464	1525	1597
40°	1422	1505	1602
45°	1379	1488	1609
50°	1330	1469	1596
55°	1276	1456	1544
60°	1223	1425	1420
65°	1167	1364	1245
70°	1083	1243	1076
75°	983	1083	889
80°	783	859	657
85°	553	479	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.4
10°-20°	161.1	9.8
20°-30°	243.0	14.7
30°-40°	291.2	17.6
40°-50°	302.2	18.3
50°-60°	272.6	16.5
60°-70°	198.8	12.0
70°-80°	104.3	6.3
80°-90°	22.3	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°	460.5	27.9
0°-40°	751.7	45.5
0°-60°	1326.6	80.3
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	595	594	591	595	595	56
15°	568	568	568	575	575	160
25°	516	519	525	537	539	238
35°	446	450	464	481	486	278
45°	362	370	391	414	423	279
55°	272	282	310	331	329	244
65°	183	194	214	206	196	181
75°	94	108	104	90	86	99
85°	18	22	16	13	12	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	596.2	596.2	596.2	596.2	596.2
2.5°	597.8	596.2	592.9	596.2	596.2
5°	595.3	593.7	591.3	595.3	595.3
7.5°	591.3	589.6	588.0	592.1	591.3
10°	584.8	583.9	583.1	588.0	588.0
12.5°	577.4	577.4	576.6	582.3	581.5
15°	568.5	568.5	568.5	575.0	575.0
17.5°	557.1	558.7	560.3	567.7	567.7
20°	544.9	546.5	549.7	558.7	559.5
22.5°	532.6	533.4	536.7	547.3	549.7
25°	516.3	518.8	525.3	536.7	539.2
27.5°	503.3	504.1	511.5	524.5	527.7
30°	483.0	488.7	496.0	510.6	513.9
32.5°	464.2	469.1	480.5	496.0	500.9
35°	445.5	450.4	464.2	481.3	486.2
37.5°	424.3	431.6	447.9	465.0	470.7
40°	404.8	411.3	428.4	449.6	456.1
42.5°	383.6	390.1	408.8	432.5	439.8
45°	362.4	369.7	390.9	414.5	422.7
47.5°	340.4	348.6	370.6	396.6	404.0
50°	317.6	326.6	351.0	377.9	381.2
52.5°	294.8	304.6	330.7	354.3	357.5
55°	272.0	281.8	310.3	330.7	329.0
57.5°	250.0	260.6	289.9	300.5	298.9
60°	227.2	238.6	264.7	269.6	263.9
62.5°	206.0	216.6	241.1	237.0	229.7
65°	183.2	193.8	214.2	206.0	195.5
67.5°	160.4	173.5	186.5	172.7	164.5
70°	137.6	152.3	158.0	144.2	136.8
72.5°	115.6	131.1	129.5	115.6	110.8
75°	94.5	107.5	104.2	90.4	85.5
77.5°	71.7	86.3	79.0	67.6	63.5
80°	50.5	63.5	55.4	45.6	42.4
82.5°	33.4	42.4	34.2	26.9	24.4
85°	17.9	22.0	15.5	13.0	12.2
87.5°	7.3	6.5	5.7	5.7	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)