

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: P258986

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258986
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-LD5-20-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1108.0 lumens
Efficiency: N/A
Efficacy: 72.2 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

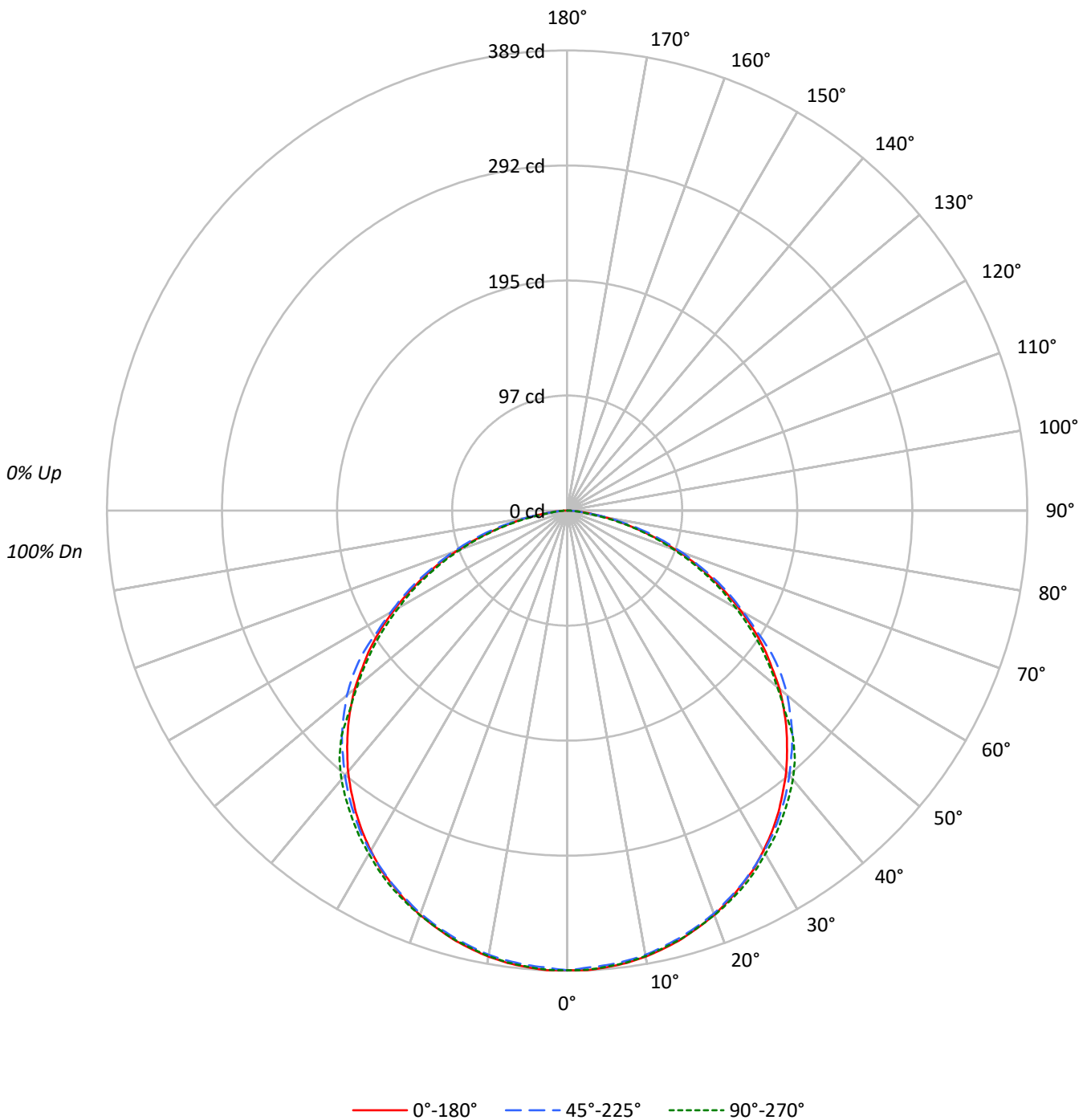
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1046	1046	1046
5°	1047	1042	1046
10°	1046	1042	1045
15°	1044	1039	1043
20°	1042	1038	1042
25°	1037	1036	1043
30°	1031	1033	1041
35°	1023	1031	1042
40°	1012	1026	1043
45°	998	1025	1027
50°	981	1017	970
55°	954	991	935
60°	913	927	886
65°	855	879	832
70°	779	810	753
75°	650	710	638
80°	514	542	442
85°	333	290	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	3.3
10°-20°	105.7	9.5
20°-30°	161.3	14.6
30°-40°	196.6	17.7
40°-50°	205.9	18.6
50°-60°	183.2	16.5
60°-70°	135.1	12.2
70°-80°	69.8	6.3
80°-90°	13.6	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°	303.7	27.4
0°-40°	500.4	45.2
0°-60°	889.5	80.3
0°-90°	1108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	389	389	389	389	389	
5°	388	387	386	387	387	37
15°	375	374	373	374	374	106
25°	349	349	349	351	351	161
35°	311	312	314	317	317	195
45°	262	264	269	272	270	202
55°	203	208	211	202	199	181
65°	134	144	138	133	131	133
75°	62	69	68	63	61	68
85°	11	12	9	9	8	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	388.6	388.6	388.6	388.6	388.6
2.5°	388.9	388.6	386.8	388.6	388.6
5°	387.5	387.1	385.7	387.1	387.1
7.5°	385.7	385.3	383.9	385.3	385.3
10°	382.8	382.4	381.4	382.8	382.4
12.5°	379.2	379.2	377.4	379.2	378.5
15°	374.9	374.5	373.1	374.5	374.5
17.5°	369.4	369.1	368.0	369.8	369.1
20°	363.7	363.3	362.6	364.4	364.0
22.5°	356.8	356.8	355.7	357.9	357.9
25°	349.2	349.2	348.9	351.4	351.4
27.5°	341.6	340.9	340.9	343.4	343.8
30°	331.9	331.9	332.6	335.5	335.1
32.5°	322.1	322.5	323.9	326.5	326.8
35°	311.3	311.7	313.8	317.4	317.1
37.5°	299.7	300.8	303.4	307.3	307.3
40°	288.2	288.9	292.2	296.5	296.9
42.5°	275.2	277.0	280.6	285.7	284.9
45°	262.2	264.0	269.4	271.9	269.8
47.5°	248.5	250.6	256.0	256.4	249.2
50°	234.4	236.9	243.0	235.8	231.8
52.5°	218.1	222.8	228.2	218.1	215.6
55°	203.3	207.7	211.3	202.2	199.3
57.5°	186.7	192.5	190.0	185.6	182.0
60°	169.7	175.9	172.3	167.9	164.7
62.5°	152.4	159.3	155.6	151.3	148.4
65°	134.3	143.7	138.0	133.3	130.7
67.5°	117.4	126.4	119.5	115.9	113.4
70°	99.0	106.5	102.9	98.2	95.7
72.5°	80.9	86.7	85.6	80.5	78.7
75°	62.5	69.0	68.3	62.8	61.4
77.5°	46.9	53.1	50.9	46.6	44.8
80°	33.2	37.2	35.0	30.0	28.5
82.5°	20.2	23.5	19.9	17.0	15.5
85°	10.8	11.9	9.4	8.7	8.3
87.5°	4.0	4.0	4.0	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)