

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: P258993

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258993
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1332.0 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

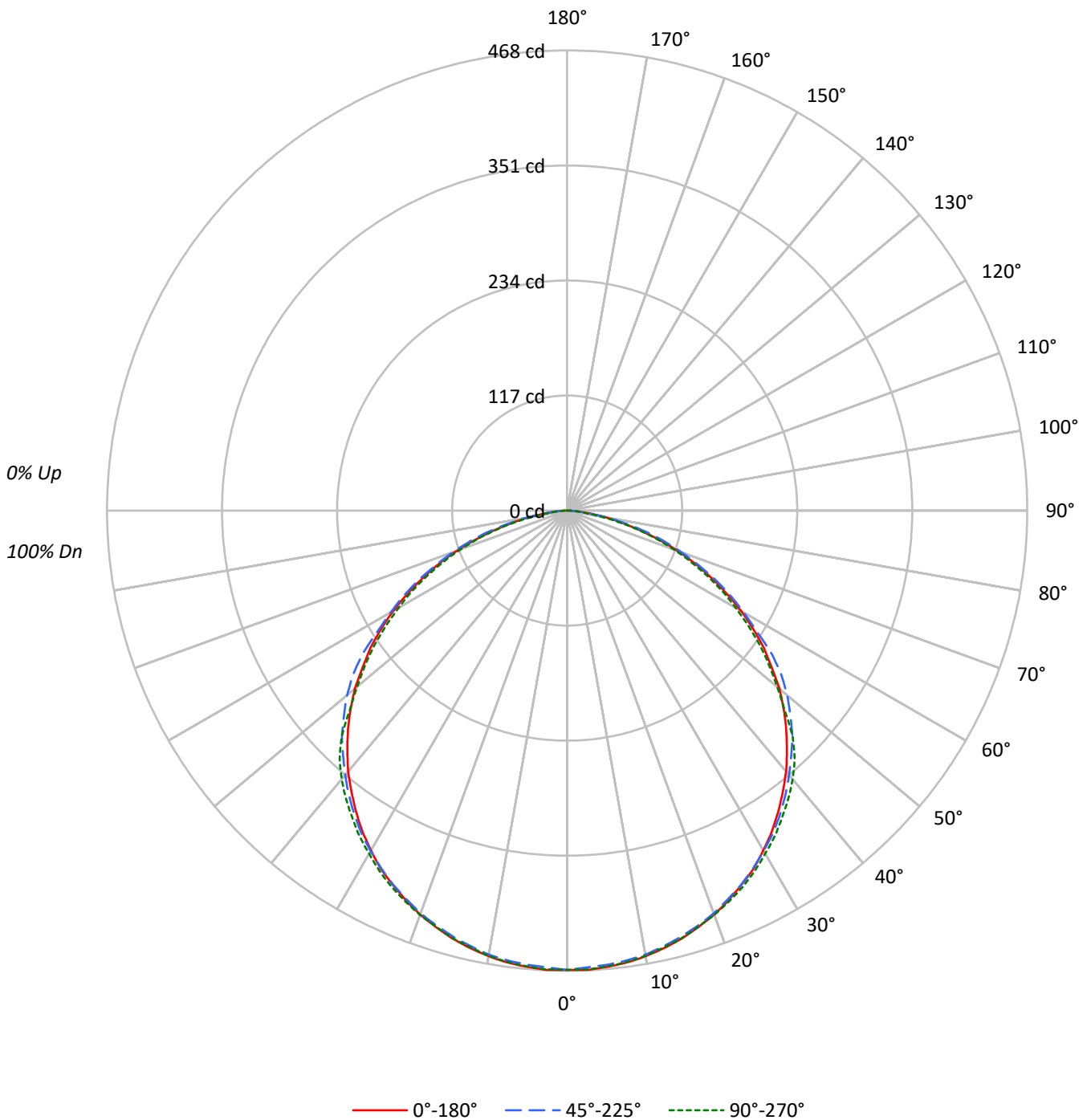
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1257	1257	1257
5°	1258	1253	1257
10°	1257	1253	1256
15°	1255	1249	1254
20°	1252	1248	1253
25°	1246	1245	1254
30°	1240	1242	1252
35°	1229	1239	1252
40°	1217	1234	1254
45°	1200	1233	1234
50°	1180	1223	1167
55°	1147	1192	1124
60°	1098	1115	1066
65°	1028	1056	1001
70°	936	973	905
75°	781	854	767
80°	618	652	532
85°	401	349	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	3.3
10°-20°	127.0	9.5
20°-30°	193.9	14.6
30°-40°	236.4	17.7
40°-50°	247.5	18.6
50°-60°	220.2	16.5
60°-70°	162.5	12.2
70°-80°	83.9	6.3
80°-90°	16.3	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°	365.1	27.4
0°-40°	601.5	45.2
0°-60°	1069.3	80.3
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	466	465	464	465	465	44
15°	451	450	448	450	450	127
25°	420	420	419	422	422	194
35°	374	375	377	382	381	234
45°	315	317	324	327	324	243
55°	244	250	254	243	240	218
65°	162	173	166	160	157	160
75°	75	83	82	76	74	81
85°	13	14	11	10	10	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	467.1	467.1	467.1	467.1	467.1
2.5°	467.6	467.1	465.0	467.1	467.1
5°	465.8	465.4	463.7	465.4	465.4
7.5°	463.7	463.2	461.5	463.2	463.2
10°	460.2	459.8	458.5	460.2	459.8
12.5°	455.8	455.8	453.7	455.8	455.0
15°	450.6	450.2	448.5	450.2	450.2
17.5°	444.1	443.7	442.4	444.6	443.7
20°	437.2	436.7	435.9	438.0	437.6
22.5°	428.9	428.9	427.6	430.2	430.2
25°	419.8	419.8	419.4	422.4	422.4
27.5°	410.7	409.8	409.8	412.9	413.3
30°	399.0	399.0	399.8	403.3	402.9
32.5°	387.3	387.7	389.4	392.5	392.9
35°	374.2	374.7	377.3	381.6	381.2
37.5°	360.3	361.6	364.7	369.5	369.5
40°	346.4	347.3	351.2	356.4	356.9
42.5°	330.8	333.0	337.3	343.4	342.5
45°	315.2	317.4	323.9	326.9	324.3
47.5°	298.7	301.3	307.8	308.2	299.6
50°	281.8	284.8	292.2	283.5	278.7
52.5°	262.2	267.9	274.4	262.2	259.2
55°	244.4	249.6	254.0	243.1	239.6
57.5°	224.5	231.4	228.4	223.1	218.8
60°	204.0	211.4	207.1	201.9	198.0
62.5°	183.2	191.5	187.1	181.9	178.4
65°	161.5	172.8	165.8	160.2	157.2
67.5°	141.1	151.9	143.7	139.4	136.3
70°	119.0	128.1	123.7	118.1	115.0
72.5°	97.2	104.2	102.9	96.8	94.6
75°	75.1	82.9	82.1	75.5	73.8
77.5°	56.4	63.8	61.2	56.0	53.8
80°	39.9	44.7	42.1	36.0	34.3
82.5°	24.3	28.2	23.9	20.4	18.7
85°	13.0	14.3	11.3	10.4	10.0
87.5°	4.8	4.8	4.8	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)