

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: P258997

Luminaire Tested: **14CZ-LD5-25-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258997
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-LD5-25-RDP-UNV-L92765-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: 1412.0 lumens
Efficiency: N/A
Efficacy: 77.5 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

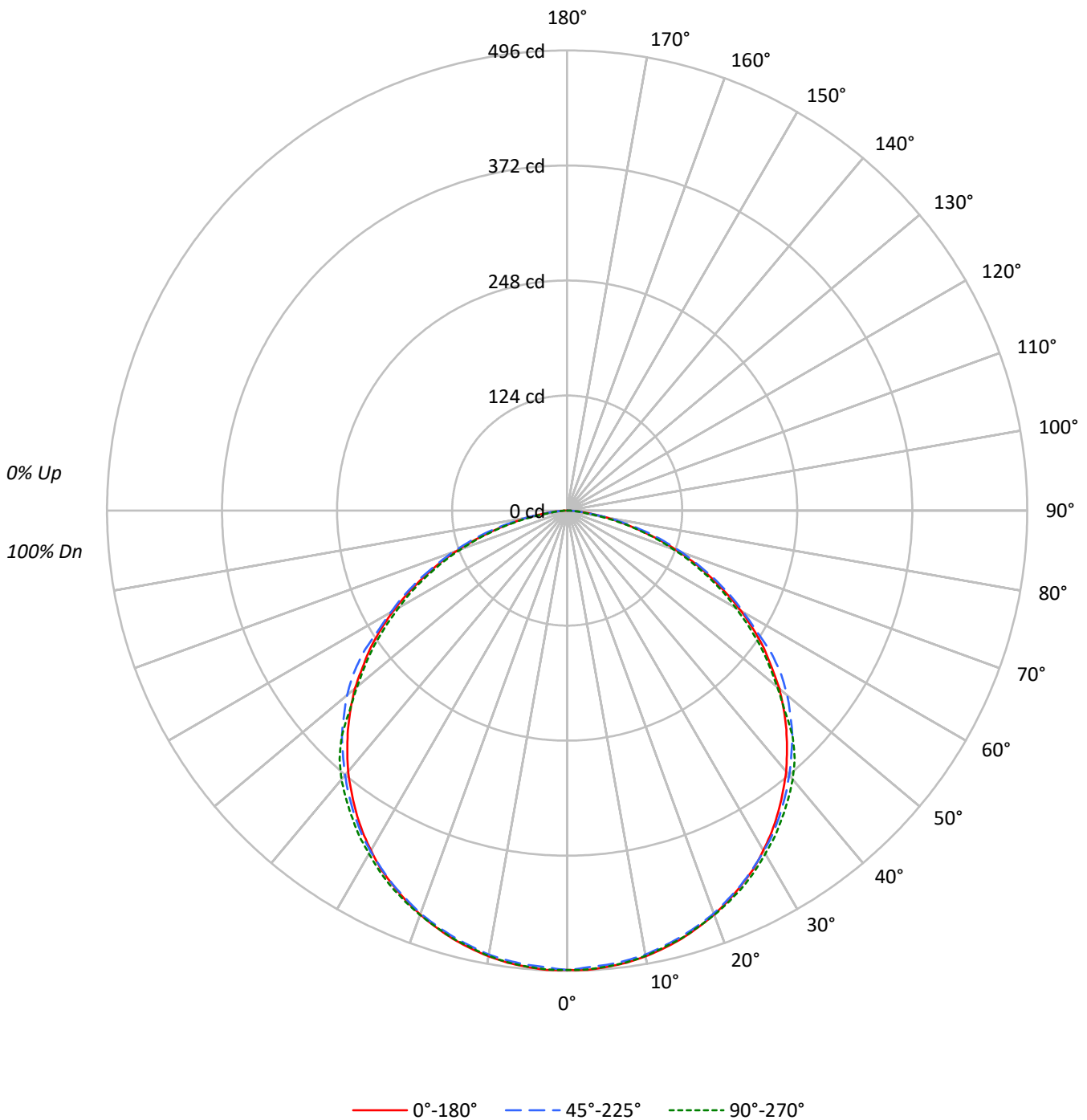
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1333	1333	1333
5°	1334	1328	1333
10°	1333	1328	1332
15°	1331	1324	1329
20°	1327	1323	1328
25°	1321	1320	1330
30°	1314	1317	1327
35°	1303	1314	1328
40°	1290	1308	1329
45°	1271	1306	1308
50°	1250	1297	1237
55°	1216	1263	1192
60°	1164	1181	1130
65°	1090	1119	1061
70°	992	1032	960
75°	828	905	813
80°	656	691	564
85°	426	371	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.3
10°-20°	134.6	9.5
20°-30°	205.5	14.6
30°-40°	250.6	17.7
40°-50°	262.4	18.6
50°-60°	233.4	16.5
60°-70°	172.2	12.2
70°-80°	89.0	6.3
80°-90°	17.3	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°	387.1	27.4
0°-40°	637.7	45.2
0°-60°	1133.5	80.3
0°-90°	1412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	494	493	492	493	493	47
15°	478	477	475	477	477	135
25°	445	445	445	448	448	205
35°	397	397	400	404	404	248
45°	334	336	343	346	344	258
55°	259	265	269	258	254	231
65°	171	183	176	170	167	170
75°	80	88	87	80	78	86
85°	14	15	12	11	11	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	495.2	495.2	495.2	495.2	495.2
2.5°	495.7	495.2	492.9	495.2	495.2
5°	493.8	493.4	491.5	493.4	493.4
7.5°	491.5	491.1	489.2	491.1	491.1
10°	487.8	487.4	486.0	487.8	487.4
12.5°	483.2	483.2	480.9	483.2	482.3
15°	477.7	477.2	475.4	477.2	477.2
17.5°	470.8	470.3	469.0	471.3	470.3
20°	463.4	463.0	462.1	464.4	463.9
22.5°	454.7	454.7	453.3	456.1	456.1
25°	445.0	445.0	444.6	447.8	447.8
27.5°	435.4	434.4	434.4	437.7	438.1
30°	422.9	422.9	423.9	427.5	427.1
32.5°	410.5	411.0	412.8	416.0	416.5
35°	396.7	397.2	399.9	404.5	404.1
37.5°	382.0	383.4	386.6	391.6	391.6
40°	367.3	368.2	372.3	377.8	378.3
42.5°	350.7	353.0	357.6	364.0	363.1
45°	334.1	336.4	343.3	346.5	343.8
47.5°	316.6	319.4	326.3	326.8	317.5
50°	298.7	301.9	309.7	300.5	295.5
52.5°	278.0	284.0	290.9	278.0	274.7
55°	259.1	264.6	269.2	257.7	254.0
57.5°	237.9	245.3	242.1	236.6	231.9
60°	216.3	224.1	219.5	214.0	209.9
62.5°	194.2	203.0	198.4	192.8	189.1
65°	171.2	183.2	175.8	169.8	166.6
67.5°	149.6	161.1	152.3	147.7	144.5
70°	126.1	135.8	131.2	125.2	122.0
72.5°	103.1	110.5	109.1	102.6	100.3
75°	79.6	87.9	87.0	80.1	78.2
77.5°	59.8	67.7	64.9	59.4	57.1
80°	42.3	47.4	44.6	38.2	36.4
82.5°	25.8	29.9	25.3	21.6	19.8
85°	13.8	15.2	12.0	11.0	10.6
87.5°	5.1	5.1	5.1	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)