

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: P258873

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258873
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-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.0 lumens
Efficiency: N/A
Efficacy: 92.1 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

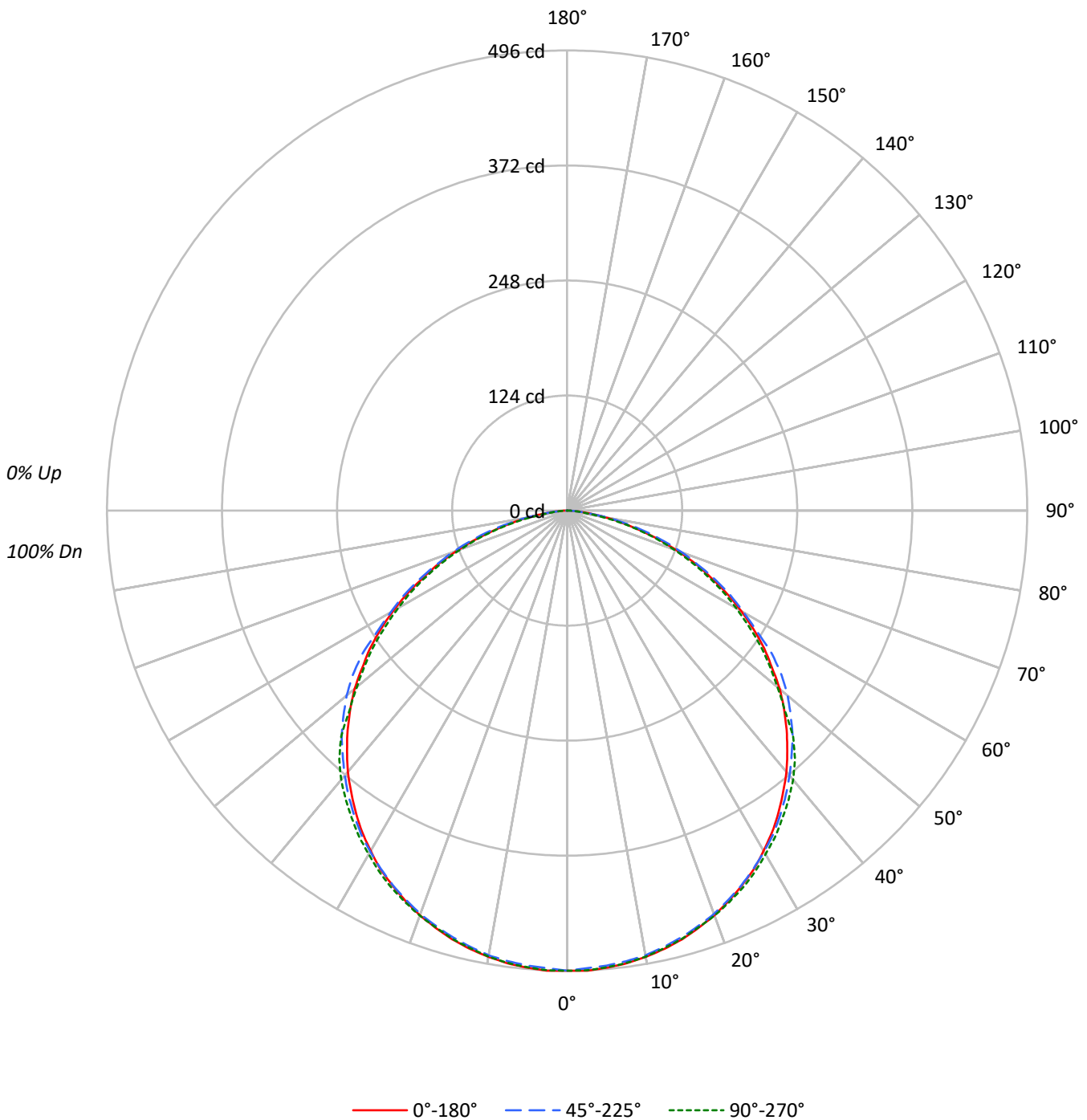
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1334	1334	1334
5°	1336	1330	1335
10°	1335	1330	1334
15°	1333	1326	1331
20°	1329	1325	1330
25°	1323	1322	1331
30°	1316	1319	1329
35°	1305	1316	1329
40°	1292	1310	1331
45°	1273	1308	1310
50°	1252	1299	1239
55°	1217	1265	1194
60°	1166	1183	1131
65°	1091	1121	1062
70°	994	1033	961
75°	829	906	814
80°	657	693	564
85°	426	371	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.3
10°-20°	134.8	9.5
20°-30°	205.8	14.6
30°-40°	251.0	17.7
40°-50°	262.8	18.6
50°-60°	233.8	16.5
60°-70°	172.5	12.2
70°-80°	89.1	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°	387.6	27.4
0°-40°	638.6	45.2
0°-60°	1135.1	80.3
0°-90°	1414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	496	496	496	496	496	
5°	494	494	492	494	494	47
15°	478	478	476	478	478	135
25°	446	446	445	448	448	206
35°	397	398	400	405	405	248
45°	335	337	344	347	344	258
55°	260	265	270	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°	495.9	495.9	495.9	495.9	495.9
2.5°	496.4	495.9	493.6	495.9	495.9
5°	494.5	494.1	492.2	494.1	494.1
7.5°	492.2	491.7	489.9	491.7	491.7
10°	488.5	488.1	486.7	488.5	488.1
12.5°	483.9	483.9	481.6	483.9	483.0
15°	478.4	477.9	476.1	477.9	477.9
17.5°	471.5	471.0	469.6	471.9	471.0
20°	464.1	463.6	462.7	465.0	464.6
22.5°	455.3	455.3	454.0	456.7	456.7
25°	445.7	445.7	445.2	448.4	448.4
27.5°	436.0	435.1	435.1	438.3	438.7
30°	423.5	423.5	424.5	428.1	427.7
32.5°	411.1	411.6	413.4	416.6	417.1
35°	397.3	397.7	400.5	405.1	404.6
37.5°	382.5	383.9	387.1	392.2	392.2
40°	367.8	368.7	372.8	378.4	378.8
42.5°	351.2	353.5	358.1	364.5	363.6
45°	334.6	336.9	343.8	347.0	344.3
47.5°	317.1	319.8	326.8	327.2	318.0
50°	299.1	302.3	310.2	300.9	295.9
52.5°	278.4	284.4	291.3	278.4	275.1
55°	259.5	265.0	269.6	258.1	254.4
57.5°	238.3	245.6	242.4	236.9	232.3
60°	216.6	224.4	219.8	214.3	210.2
62.5°	194.5	203.2	198.6	193.1	189.4
65°	171.4	183.4	176.1	170.1	166.8
67.5°	149.8	161.3	152.5	147.9	144.7
70°	126.3	136.0	131.3	125.4	122.1
72.5°	103.2	110.6	109.2	102.8	100.5
75°	79.7	88.0	87.1	80.2	78.3
77.5°	59.9	67.7	65.0	59.5	57.1
80°	42.4	47.5	44.7	38.3	36.4
82.5°	25.8	30.0	25.3	21.7	19.8
85°	13.8	15.2	12.0	11.1	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)