

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: P258912

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258912  
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-LD5-29-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1534.1 lumens  
Efficiency: N/A  
Efficacy: 67.9 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

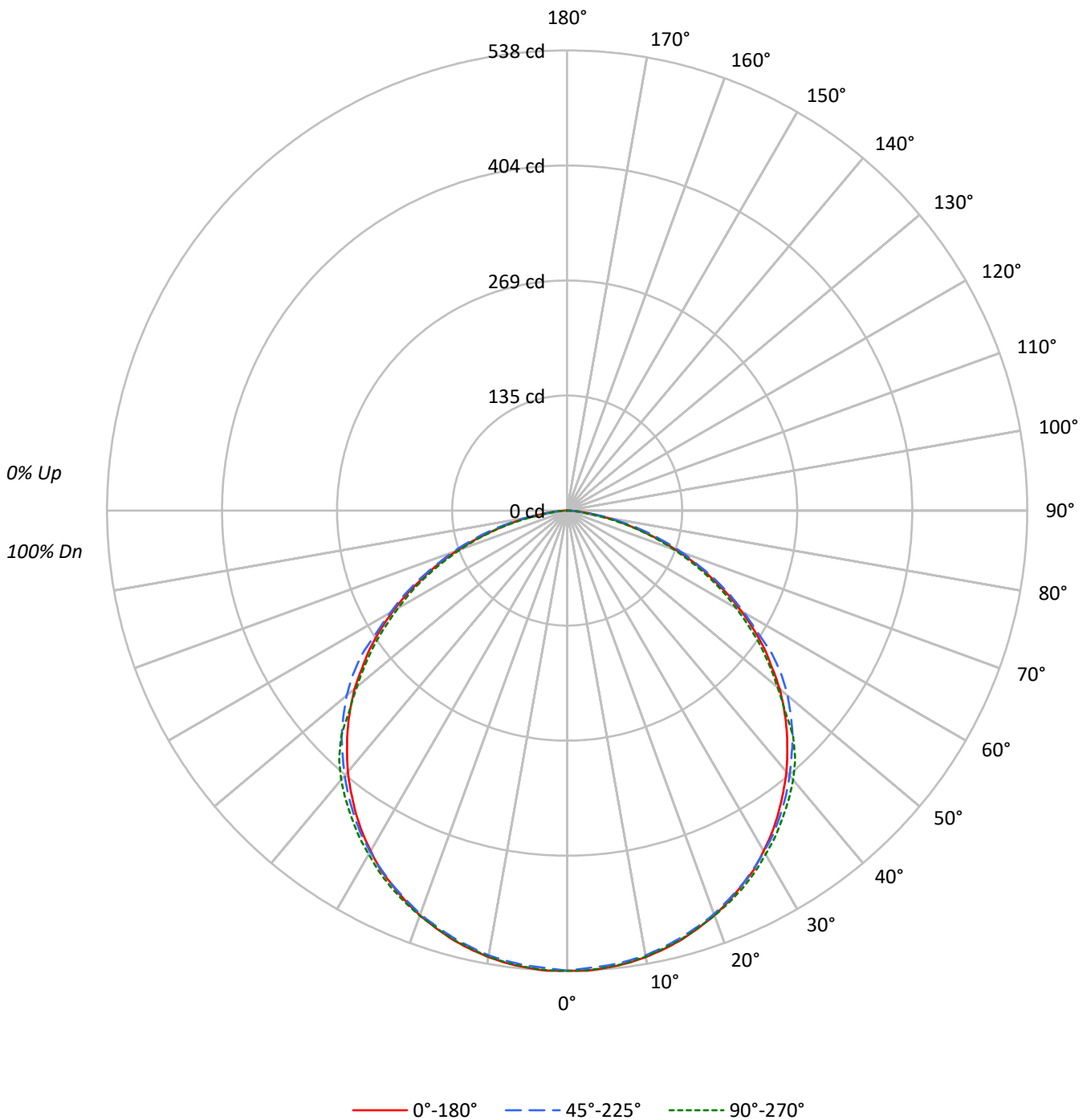
Input Watts (W): 22.599  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1448	1448	1448
5°	1449	1442	1448
10°	1448	1443	1447
15°	1446	1439	1444
20°	1442	1438	1443
25°	1436	1434	1444
30°	1428	1431	1442
35°	1416	1427	1442
40°	1402	1421	1444
45°	1381	1419	1421
50°	1358	1409	1344
55°	1321	1372	1295
60°	1265	1284	1227
65°	1184	1216	1152
70°	1078	1121	1042
75°	899	983	884
80°	713	752	612
85°	463	401	355



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	3.3
10°-20°	146.3	9.5
20°-30°	223.3	14.6
30°-40°	272.3	17.7
40°-50°	285.1	18.6
50°-60°	253.6	16.5
60°-70°	187.1	12.2
70°-80°	96.7	6.3
80°-90°	18.8	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°	420.5	27.4
0°-40°	692.8	45.2
0°-60°	1231.5	80.3
0°-90°	1534.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	536	536	534	536	536	51
15°	519	518	516	518	518	146
25°	484	484	483	486	486	223
35°	431	432	434	440	439	270
45°	363	366	373	376	374	280
55°	282	288	292	280	276	251
65°	186	199	191	184	181	184
75°	86	96	94	87	85	94
85°	15	16	13	12	12	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	538.0	538.0	538.0	538.0	538.0
2.5°	538.5	538.0	535.5	538.0	538.0
5°	536.5	536.0	534.0	536.0	536.0
7.5°	534.0	533.5	531.5	533.5	533.5
10°	530.0	529.5	528.0	530.0	529.5
12.5°	525.0	525.0	522.5	525.0	524.0
15°	519.0	518.5	516.5	518.5	518.5
17.5°	511.5	511.0	509.5	512.0	511.0
20°	503.5	503.0	502.0	504.5	504.0
22.5°	494.0	494.0	492.5	495.5	495.5
25°	483.5	483.5	483.0	486.5	486.5
27.5°	473.0	472.0	472.0	475.5	476.0
30°	459.5	459.5	460.5	464.5	464.0
32.5°	446.0	446.5	448.5	452.0	452.5
35°	431.0	431.5	434.5	439.5	439.0
37.5°	415.0	416.5	420.0	425.5	425.5
40°	399.0	400.0	404.5	410.5	411.0
42.5°	381.0	383.5	388.5	395.5	394.5
45°	363.0	365.5	373.0	376.5	373.5
47.5°	344.0	347.0	354.5	355.0	345.0
50°	324.5	328.0	336.5	326.5	321.0
52.5°	302.0	308.5	316.0	302.0	298.5
55°	281.5	287.5	292.5	280.0	276.0
57.5°	258.5	266.5	263.0	257.0	252.0
60°	235.0	243.5	238.5	232.5	228.0
62.5°	211.0	220.5	215.5	209.5	205.5
65°	186.0	199.0	191.0	184.5	181.0
67.5°	162.5	175.0	165.5	160.5	157.0
70°	137.0	147.5	142.5	136.0	132.5
72.5°	112.0	120.0	118.5	111.5	109.0
75°	86.5	95.5	94.5	87.0	85.0
77.5°	65.0	73.5	70.5	64.5	62.0
80°	46.0	51.5	48.5	41.5	39.5
82.5°	28.0	32.5	27.5	23.5	21.5
85°	15.0	16.5	13.0	12.0	11.5
87.5°	5.5	5.5	5.5	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)