

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: P258886

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258886  
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-L83050-W2A1-U-5000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2090.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

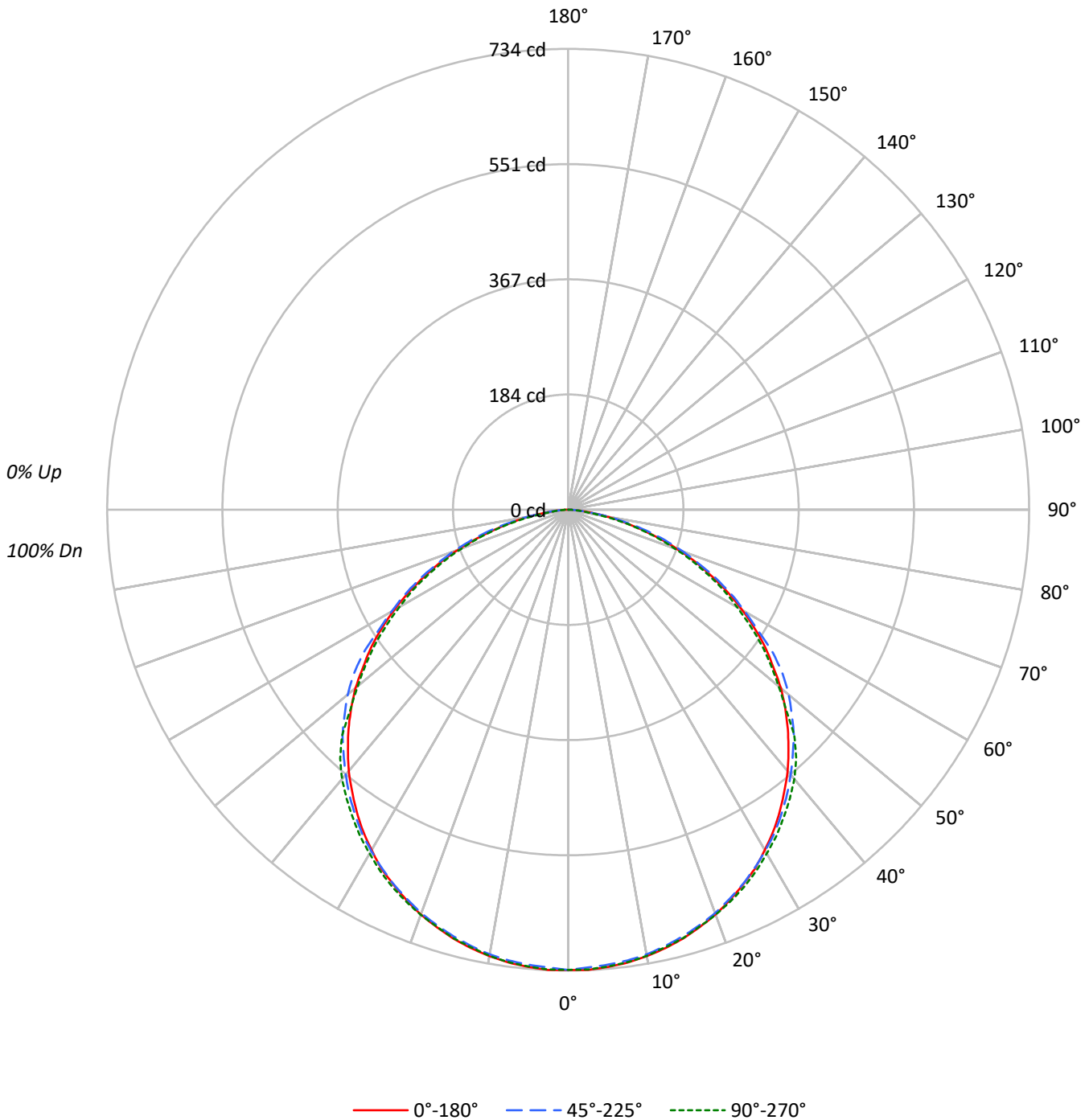
Input Watts (W): 23.25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1972	1972	1972
5°	1974	1965	1972
10°	1973	1965	1971
15°	1970	1960	1968
20°	1964	1958	1966
25°	1956	1954	1968
30°	1945	1950	1964
35°	1929	1945	1965
40°	1910	1936	1967
45°	1882	1934	1937
50°	1851	1919	1831
55°	1799	1870	1764
60°	1723	1749	1672
65°	1613	1657	1570
70°	1468	1527	1420
75°	1225	1338	1204
80°	972	1024	834
85°	630	546	485



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	3.3
10°-20°	199.3	9.5
20°-30°	304.2	14.6
30°-40°	370.9	17.7
40°-50°	388.4	18.6
50°-60°	345.5	16.5
60°-70°	254.9	12.2
70°-80°	131.7	6.3
80°-90°	25.6	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°	572.9	27.4
0°-40°	943.8	45.2
0°-60°	1677.8	80.3
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	731	730	728	730	730	70
15°	707	706	704	706	706	200
25°	659	659	658	663	663	304
35°	587	588	592	599	598	367
45°	495	498	508	513	509	381
55°	384	392	398	382	376	342
65°	253	271	260	251	247	251
75°	118	130	129	118	116	127
85°	20	22	18	16	16	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	733.0	733.0	733.0	733.0	733.0
2.5°	733.7	733.0	729.6	733.0	733.0
5°	730.9	730.2	727.5	730.2	730.2
7.5°	727.5	726.8	724.1	726.8	726.8
10°	722.1	721.4	719.3	722.1	721.4
12.5°	715.3	715.3	711.9	715.3	713.9
15°	707.1	706.4	703.7	706.4	706.4
17.5°	696.9	696.2	694.1	697.5	696.2
20°	686.0	685.3	683.9	687.3	686.6
22.5°	673.0	673.0	671.0	675.1	675.1
25°	658.7	658.7	658.0	662.8	662.8
27.5°	644.4	643.1	643.1	647.8	648.5
30°	626.0	626.0	627.4	632.8	632.2
32.5°	607.6	608.3	611.0	615.8	616.5
35°	587.2	587.9	592.0	598.8	598.1
37.5°	565.4	567.4	572.2	579.7	579.7
40°	543.6	545.0	551.1	559.3	559.9
42.5°	519.1	522.5	529.3	538.8	537.5
45°	494.6	498.0	508.2	512.9	508.9
47.5°	468.7	472.8	483.0	483.7	470.0
50°	442.1	446.9	458.4	444.8	437.3
52.5°	411.4	420.3	430.5	411.4	406.7
55°	383.5	391.7	398.5	381.5	376.0
57.5°	352.2	363.1	358.3	350.1	343.3
60°	320.2	331.7	324.9	316.8	310.6
62.5°	287.5	300.4	293.6	285.4	280.0
65°	253.4	271.1	260.2	251.4	246.6
67.5°	221.4	238.4	225.5	218.7	213.9
70°	186.6	201.0	194.1	185.3	180.5
72.5°	152.6	163.5	161.4	151.9	148.5
75°	117.8	130.1	128.7	118.5	115.8
77.5°	88.6	100.1	96.0	87.9	84.5
80°	62.7	70.2	66.1	56.5	53.8
82.5°	38.1	44.3	37.5	32.0	29.3
85°	20.4	22.5	17.7	16.3	15.7
87.5°	7.5	7.5	7.5	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)