

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: P#

Luminaire Tested: **14CZ-LD5-29-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-UNV-L850-CD1-U  
Description: CRUZE 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

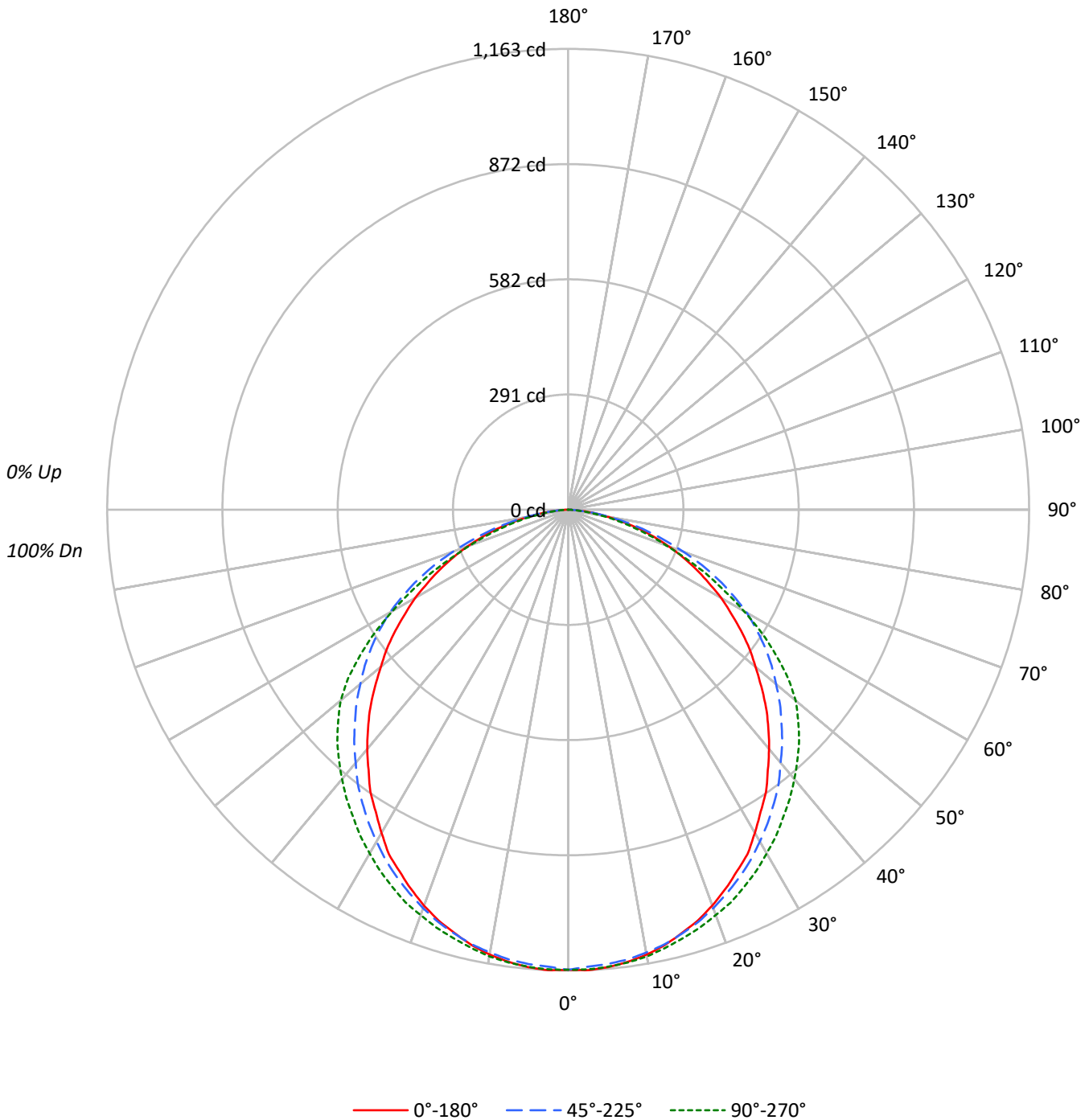
Lumens per Lamp: N/A  
Luminaire Lumens: 3219.6 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 24.53  
Input Voltage (V): NR  
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	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3124	3124	3124
5°	3123	3085	3101
10°	3102	3053	3074
15°	3062	3015	3037
20°	3017	2969	3008
25°	2955	2918	2979
30°	2884	2859	2942
35°	2809	2798	2905
40°	2713	2727	2877
45°	2621	2659	2850
50°	2507	2592	2802
55°	2410	2524	2629
60°	2300	2429	2349
65°	2154	2242	2018
70°	1984	1950	1625
75°	1750	1589	1265
80°	1348	1104	845
85°	850	473	321



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	3.4
10°-20°	313.8	9.7
20°-30°	473.4	14.7
30°-40°	567.7	17.6
40°-50°	589.1	18.3
50°-60°	531.8	16.5
60°-70°	387.3	12.0
70°-80°	203.2	6.3
80°-90°	43.5	1.3
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°	897.1	27.9
0°-40°	1464.7	45.5
0°-60°	2585.6	80.3
0°-90°	3219.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3219.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1159	1156	1151	1159	1158	110
15°	1106	1106	1108	1120	1119	312
25°	1007	1012	1023	1046	1050	464
35°	870	878	905	938	946	543
45°	706	721	761	808	824	544
55°	532	550	606	642	640	476
65°	356	378	419	400	385	353
75°	184	210	203	176	167	193
85°	35	42	31	24	22	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	1163.3	1160.2	1154.1	1161.8	1161.0
5°	1158.7	1156.4	1151.0	1158.7	1157.9
7.5°	1151.0	1149.4	1144.8	1153.3	1152.5
10°	1140.2	1137.9	1134.8	1144.1	1144.8
12.5°	1125.6	1124.8	1123.3	1133.3	1132.5
15°	1106.3	1106.3	1107.9	1120.2	1119.4
17.5°	1087.1	1087.1	1090.9	1104.8	1105.6
20°	1063.2	1064.8	1070.1	1087.1	1088.6
22.5°	1036.3	1037.8	1047.0	1068.6	1072.5
25°	1007.0	1012.4	1023.2	1045.5	1050.1
27.5°	980.1	980.8	997.0	1021.6	1027.8
30°	941.6	952.3	967.0	995.5	1001.6
32.5°	903.8	914.6	937.0	967.7	976.2
35°	870.0	878.4	904.6	938.5	946.2
37.5°	827.6	841.5	872.3	907.7	918.5
40°	788.4	800.7	833.8	873.8	887.7
42.5°	747.6	761.4	799.1	842.3	856.1
45°	706.0	721.4	760.6	808.4	823.8
47.5°	660.6	679.8	724.5	773.0	786.8
50°	616.7	636.7	684.4	735.2	749.1
52.5°	576.6	594.4	646.7	693.7	699.8
55°	532.0	550.5	605.9	642.1	640.5
57.5°	487.3	508.1	563.6	585.9	579.7
60°	445.8	465.0	520.4	525.1	512.0
62.5°	399.6	421.9	468.9	461.9	445.8
65°	356.5	378.0	418.8	399.6	384.9
67.5°	312.6	335.7	364.9	336.4	319.5
70°	269.5	297.2	308.0	277.2	263.3
72.5°	225.6	254.8	254.1	224.8	213.3
75°	184.0	210.2	203.2	175.5	167.1
77.5°	140.1	166.3	153.2	132.4	124.7
80°	99.3	124.0	107.0	90.8	85.5
82.5°	67.7	82.4	67.0	53.1	50.8
85°	35.4	42.3	30.8	23.9	22.3
87.5°	13.1	12.3	10.8	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)