

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: P258546

Luminaire Tested: **14CZ-LD5-29-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
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-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2778.3 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

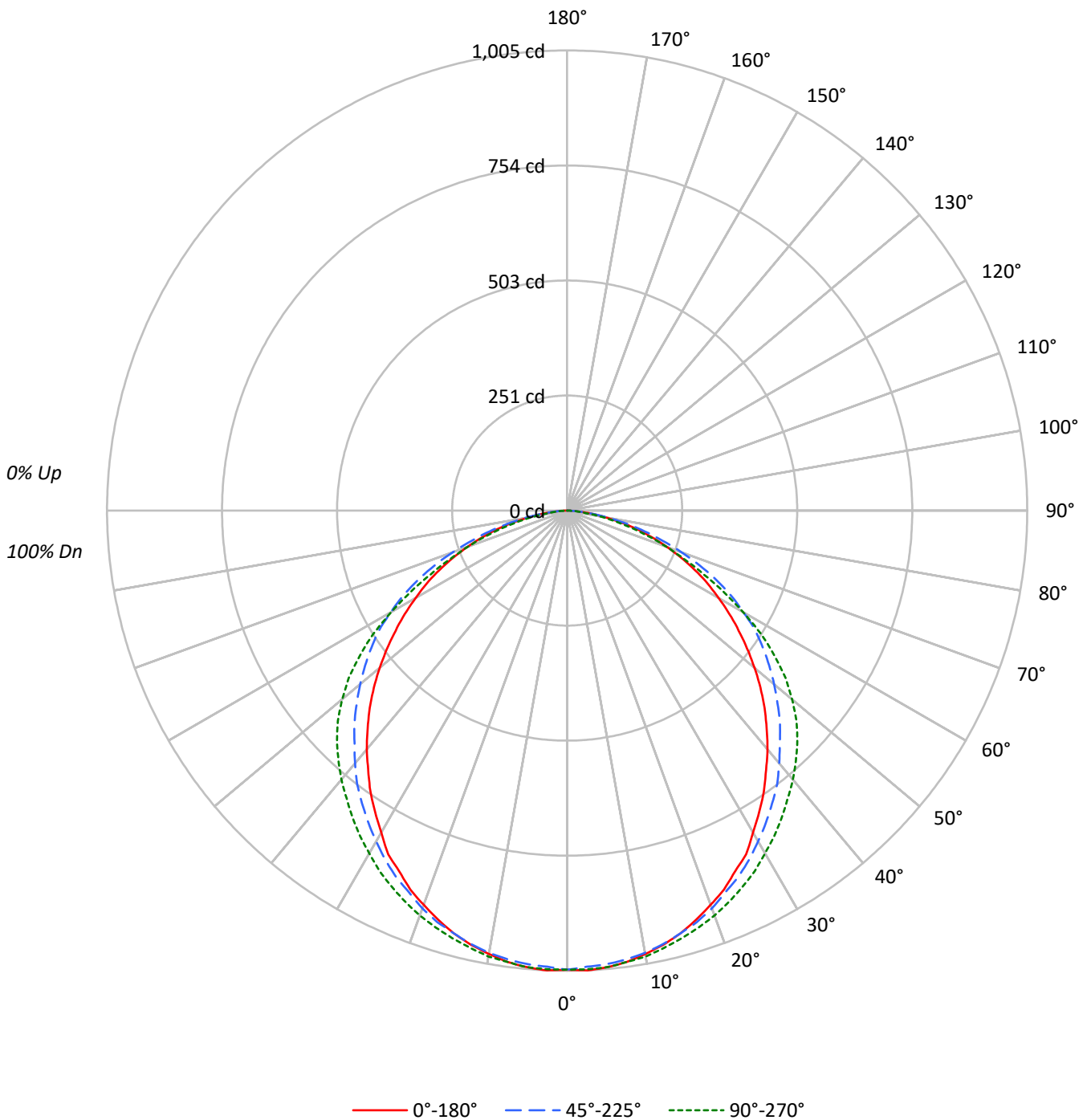
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2698	2698	2698
5°	2704	2686	2704
10°	2687	2680	2702
15°	2663	2663	2694
20°	2624	2647	2695
25°	2578	2623	2692
30°	2524	2592	2686
35°	2461	2565	2686
40°	2391	2531	2694
45°	2320	2502	2705
50°	2236	2471	2683
55°	2146	2449	2596
60°	2056	2396	2389
65°	1962	2294	2093
70°	1821	2090	1810
75°	1652	1823	1495
80°	1316	1443	1103
85°	929	803	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.4
10°-20°	271.0	9.8
20°-30°	408.6	14.7
30°-40°	489.8	17.6
40°-50°	508.3	18.3
50°-60°	458.5	16.5
60°-70°	334.4	12.0
70°-80°	175.5	6.3
80°-90°	37.4	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°	774.5	27.9
0°-40°	1264.3	45.5
0°-60°	2231.0	80.3
0°-90°	2778.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2778.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1001	998	994	1001	1001	95
15°	956	956	956	967	967	269
25°	868	872	883	903	907	401
35°	749	757	781	810	818	468
45°	610	622	657	697	711	470
55°	458	474	522	556	553	410
65°	308	326	360	346	329	305
75°	159	181	175	152	144	167
85°	30	37	26	22	20	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.6	1002.6	1002.6	1002.6	1002.6
2.5°	1005.3	1002.6	997.1	1002.6	1002.6
5°	1001.2	998.5	994.4	1001.2	1001.2
7.5°	994.4	991.7	988.9	995.8	994.4
10°	983.4	982.1	980.7	988.9	988.9
12.5°	971.1	971.1	969.7	979.3	978.0
15°	956.0	956.0	956.0	967.0	967.0
17.5°	936.9	939.6	942.3	954.7	954.7
20°	916.3	919.1	924.5	939.6	941.0
22.5°	895.8	897.1	902.6	920.4	924.5
25°	868.4	872.5	883.4	902.6	906.7
27.5°	846.5	847.8	860.2	882.1	887.6
30°	812.2	821.8	834.1	858.8	864.3
32.5°	780.7	788.9	808.1	834.1	842.4
35°	749.2	757.4	780.7	809.5	817.7
37.5°	713.6	725.9	753.3	782.1	791.7
40°	680.7	691.7	720.5	756.1	767.0
42.5°	645.1	656.1	687.6	727.3	739.6
45°	609.5	621.8	657.4	697.2	710.9
47.5°	572.5	586.2	623.2	667.0	679.4
50°	534.2	549.2	590.3	635.5	641.0
52.5°	495.8	512.3	556.1	595.8	601.3
55°	457.5	473.9	521.9	556.1	553.4
57.5°	420.5	438.3	487.6	505.4	502.7
60°	382.1	401.3	445.1	453.4	443.8
62.5°	346.5	364.3	405.4	398.6	386.3
65°	308.2	326.0	360.2	346.5	328.7
67.5°	269.8	291.7	313.7	290.4	276.7
70°	231.5	256.1	265.7	242.4	230.1
72.5°	194.5	220.5	217.8	194.5	186.3
75°	158.9	180.8	175.3	152.0	143.8
77.5°	120.5	145.2	132.9	113.7	106.8
80°	84.9	106.8	93.1	76.7	71.2
82.5°	56.2	71.2	57.5	45.2	41.1
85°	30.1	37.0	26.0	21.9	20.5
87.5°	12.3	11.0	9.6	9.6	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)