

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: P258714

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-S-UNV-L83050-W2A1-U-3000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2833.9 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

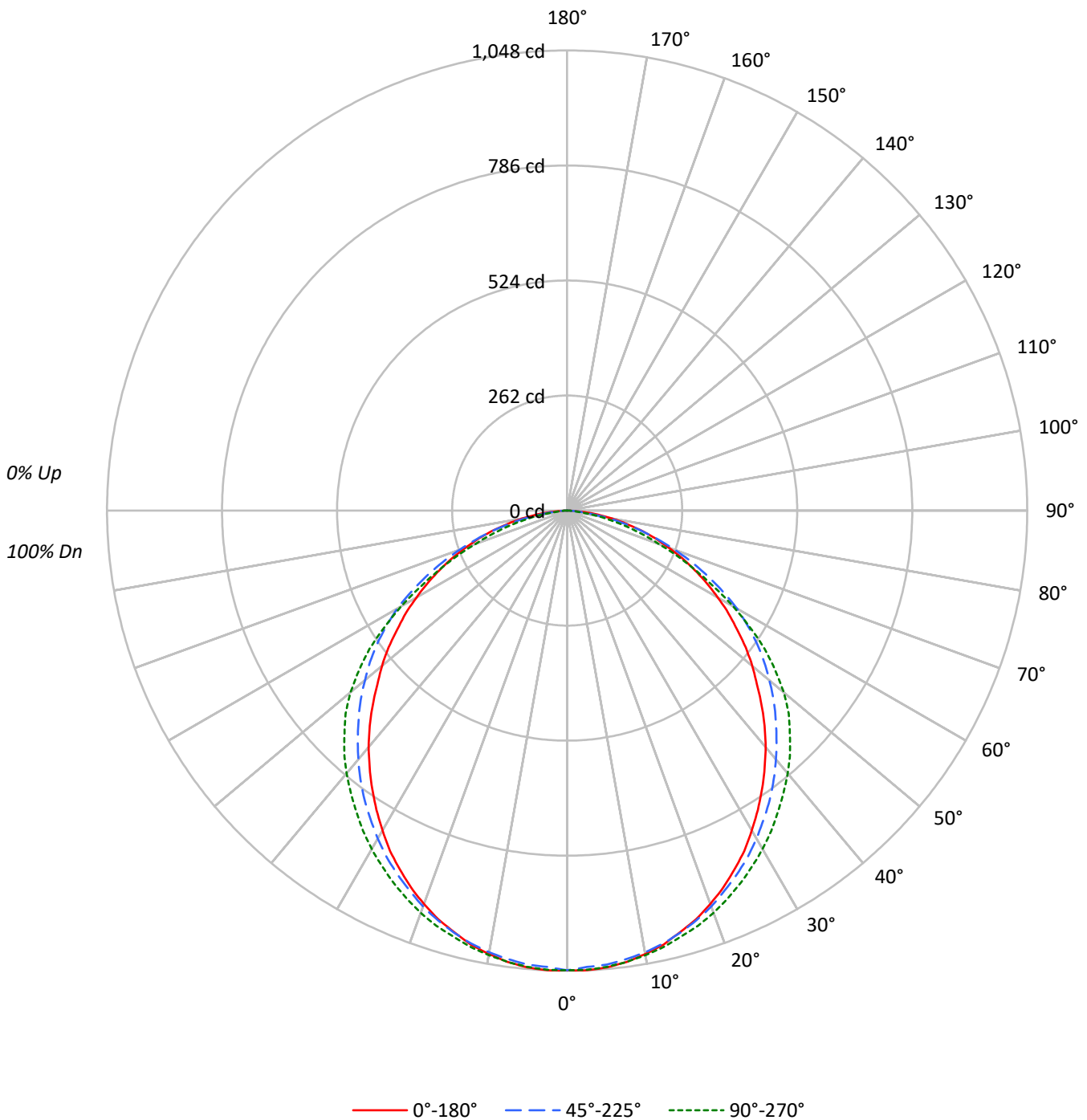
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2817	2817	2817
5°	2821	2804	2817
10°	2802	2792	2809
15°	2769	2772	2797
20°	2730	2748	2792
25°	2677	2714	2778
30°	2613	2680	2766
35°	2543	2643	2750
40°	2471	2599	2746
45°	2383	2557	2729
50°	2305	2516	2696
55°	2216	2476	2577
60°	2134	2406	2351
65°	2042	2252	2066
70°	1928	2046	1748
75°	1799	1773	1444
80°	1585	1370	1057
85°	1247	664	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.5
10°-20°	281.8	9.9
20°-30°	422.9	14.9
30°-40°	504.2	17.8
40°-50°	519.3	18.3
50°-60°	462.8	16.3
60°-70°	333.5	11.8
70°-80°	174.4	6.2
80°-90°	36.1	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°	803.6	28.4
0°-40°	1307.8	46.1
0°-60°	2289.9	80.8
0°-90°	2833.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1044	1042	1038	1044	1043	99
15°	994	995	995	1005	1004	280
25°	902	907	914	932	936	415
35°	774	784	804	831	837	484
45°	626	640	672	710	717	483
55°	472	487	528	552	549	424
65°	321	332	354	337	324	318
75°	173	182	170	148	139	183
85°	40	35	22	19	19	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.8	1046.8	1046.8	1046.8	1046.8
2.5°	1048.1	1045.6	1040.5	1046.8	1046.8
5°	1044.3	1041.8	1038.0	1044.3	1043.0
7.5°	1036.7	1034.2	1030.4	1038.0	1036.7
10°	1025.4	1024.1	1021.6	1029.2	1027.9
12.5°	1012.7	1011.5	1010.2	1017.8	1017.8
15°	993.8	995.1	995.1	1005.2	1003.9
17.5°	976.1	977.4	978.6	991.3	991.3
20°	953.4	954.6	959.7	973.6	974.9
22.5°	929.4	930.7	937.0	953.4	955.9
25°	901.6	906.7	914.2	931.9	935.7
27.5°	873.8	877.6	890.2	910.5	913.0
30°	841.0	848.6	862.5	885.2	890.2
32.5°	808.2	817.0	833.4	858.7	865.0
35°	774.1	784.2	804.4	830.9	837.2
37.5°	738.7	747.6	772.8	800.6	809.4
40°	703.4	712.2	740.0	771.5	781.7
42.5°	665.5	678.1	705.9	741.2	751.3
45°	626.3	640.2	671.8	709.7	717.2
47.5°	585.9	601.1	637.7	675.6	684.4
50°	550.6	564.5	601.1	637.7	644.0
52.5°	512.7	525.3	565.7	596.0	597.3
55°	472.3	487.4	527.8	551.8	549.3
57.5°	435.7	448.3	487.4	500.1	492.5
60°	396.5	407.9	447.0	448.3	436.9
62.5°	358.6	370.0	400.3	391.5	377.6
65°	320.7	332.1	353.6	337.2	324.5
67.5°	284.1	294.2	306.9	285.4	272.8
70°	245.0	258.9	260.1	234.9	222.2
72.5°	210.9	218.5	215.9	191.9	180.6
75°	173.0	181.8	170.5	147.7	138.9
77.5°	137.6	144.0	128.8	107.3	101.0
80°	102.3	106.1	88.4	72.0	68.2
82.5°	69.5	69.5	50.5	39.1	35.4
85°	40.4	35.4	21.5	18.9	18.9
87.5°	13.9	8.8	8.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)