

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: P258900

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258900
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-LD5-44-RDP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

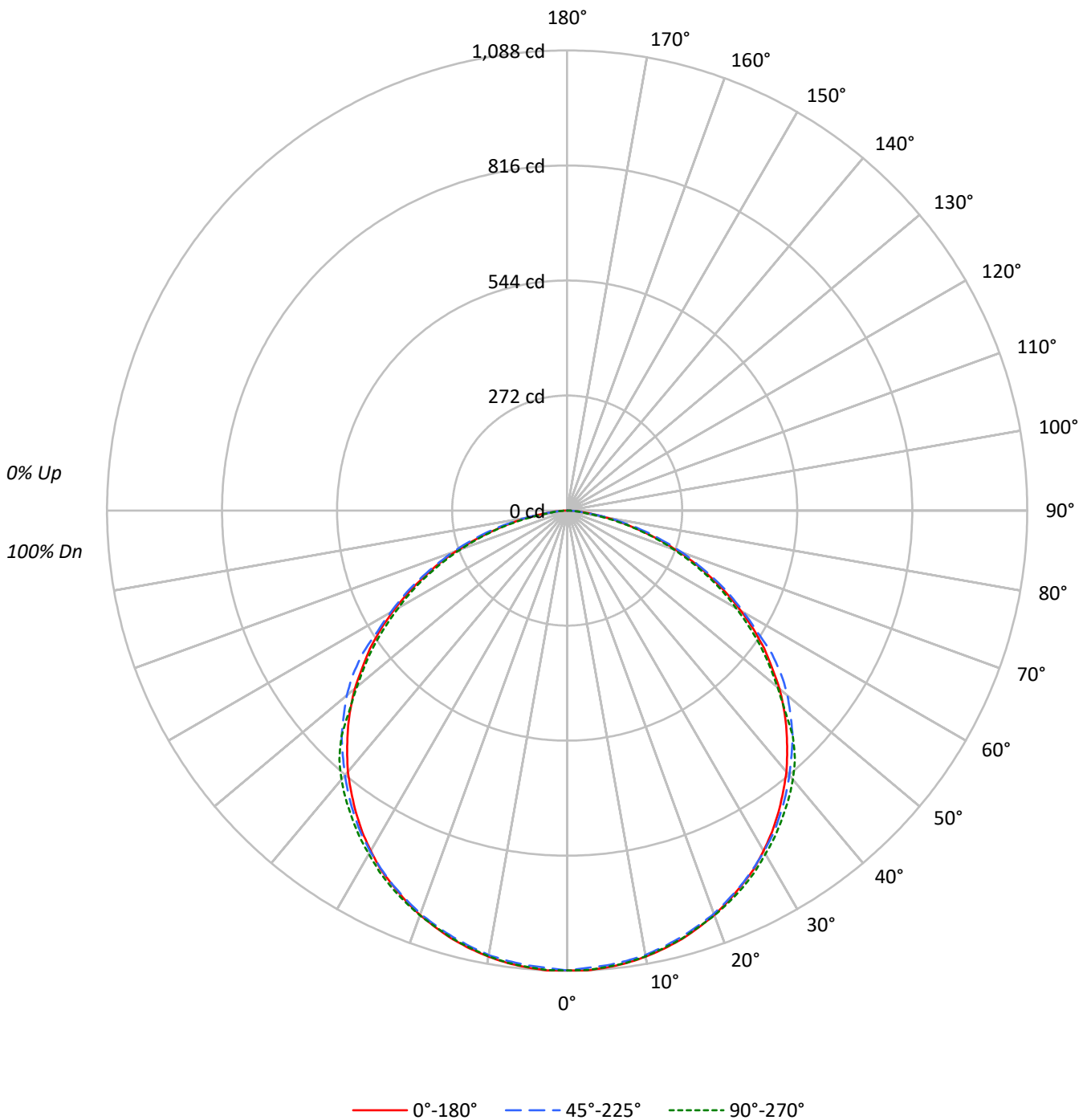
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2926	2926	2926
5°	2929	2915	2926
10°	2926	2916	2924
15°	2922	2908	2919
20°	2914	2905	2917
25°	2901	2898	2919
30°	2885	2892	2913
35°	2861	2884	2914
40°	2832	2871	2917
45°	2791	2869	2872
50°	2745	2847	2716
55°	2669	2773	2616
60°	2556	2594	2479
65°	2394	2458	2329
70°	2178	2266	2107
75°	1817	1986	1786
80°	1441	1519	1237
85°	936	812	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.3
10°-20°	295.6	9.5
20°-30°	451.2	14.6
30°-40°	550.2	17.7
40°-50°	576.1	18.6
50°-60°	512.5	16.5
60°-70°	378.1	12.2
70°-80°	195.4	6.3
80°-90°	38.0	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°	849.8	27.4
0°-40°	1400.0	45.2
0°-60°	2488.6	80.3
0°-90°	3100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1084	1083	1079	1083	1083	103
15°	1049	1048	1044	1048	1048	296
25°	977	977	976	983	983	451
35°	871	872	878	888	887	545
45°	734	739	754	761	755	566
55°	569	581	591	566	558	507
65°	376	402	386	373	366	373
75°	175	193	191	176	172	189
85°	30	33	26	24	23	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1087.2	1087.2	1087.2	1087.2	1087.2
2.5°	1088.2	1087.2	1082.1	1087.2	1087.2
5°	1084.2	1083.1	1079.1	1083.1	1083.1
7.5°	1079.1	1078.1	1074.0	1078.1	1078.1
10°	1071.0	1070.0	1067.0	1071.0	1070.0
12.5°	1060.9	1060.9	1055.9	1060.9	1058.9
15°	1048.8	1047.8	1043.7	1047.8	1047.8
17.5°	1033.6	1032.6	1029.6	1034.6	1032.6
20°	1017.5	1016.5	1014.4	1019.5	1018.5
22.5°	998.3	998.3	995.2	1001.3	1001.3
25°	977.0	977.0	976.0	983.1	983.1
27.5°	955.8	953.8	953.8	960.9	961.9
30°	928.6	928.6	930.6	938.7	937.6
32.5°	901.3	902.3	906.3	913.4	914.4
35°	871.0	872.0	878.0	888.1	887.1
37.5°	838.6	841.7	848.7	859.8	859.8
40°	806.3	808.3	817.4	829.5	830.5
42.5°	769.9	775.0	785.1	799.2	797.2
45°	733.5	738.6	753.8	760.8	754.8
47.5°	695.1	701.2	716.4	717.4	697.2
50°	655.7	662.8	680.0	659.8	648.7
52.5°	610.3	623.4	638.6	610.3	603.2
55°	568.9	581.0	591.1	565.8	557.7
57.5°	522.4	538.5	531.5	519.3	509.2
60°	474.9	492.1	482.0	469.8	460.7
62.5°	426.4	445.6	435.5	423.4	415.3
65°	375.9	402.1	386.0	372.8	365.8
67.5°	328.4	353.6	334.4	324.3	317.3
70°	276.8	298.1	288.0	274.8	267.8
72.5°	226.3	242.5	239.5	225.3	220.3
75°	174.8	193.0	191.0	175.8	171.8
77.5°	131.4	148.5	142.5	130.3	125.3
80°	93.0	104.1	98.0	83.9	79.8
82.5°	56.6	65.7	55.6	47.5	43.4
85°	30.3	33.3	26.3	24.2	23.2
87.5°	11.1	11.1	11.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)