

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: P258928

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258928
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-L93050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2486.0 lumens
Efficiency: N/A
Efficacy: 68.5 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

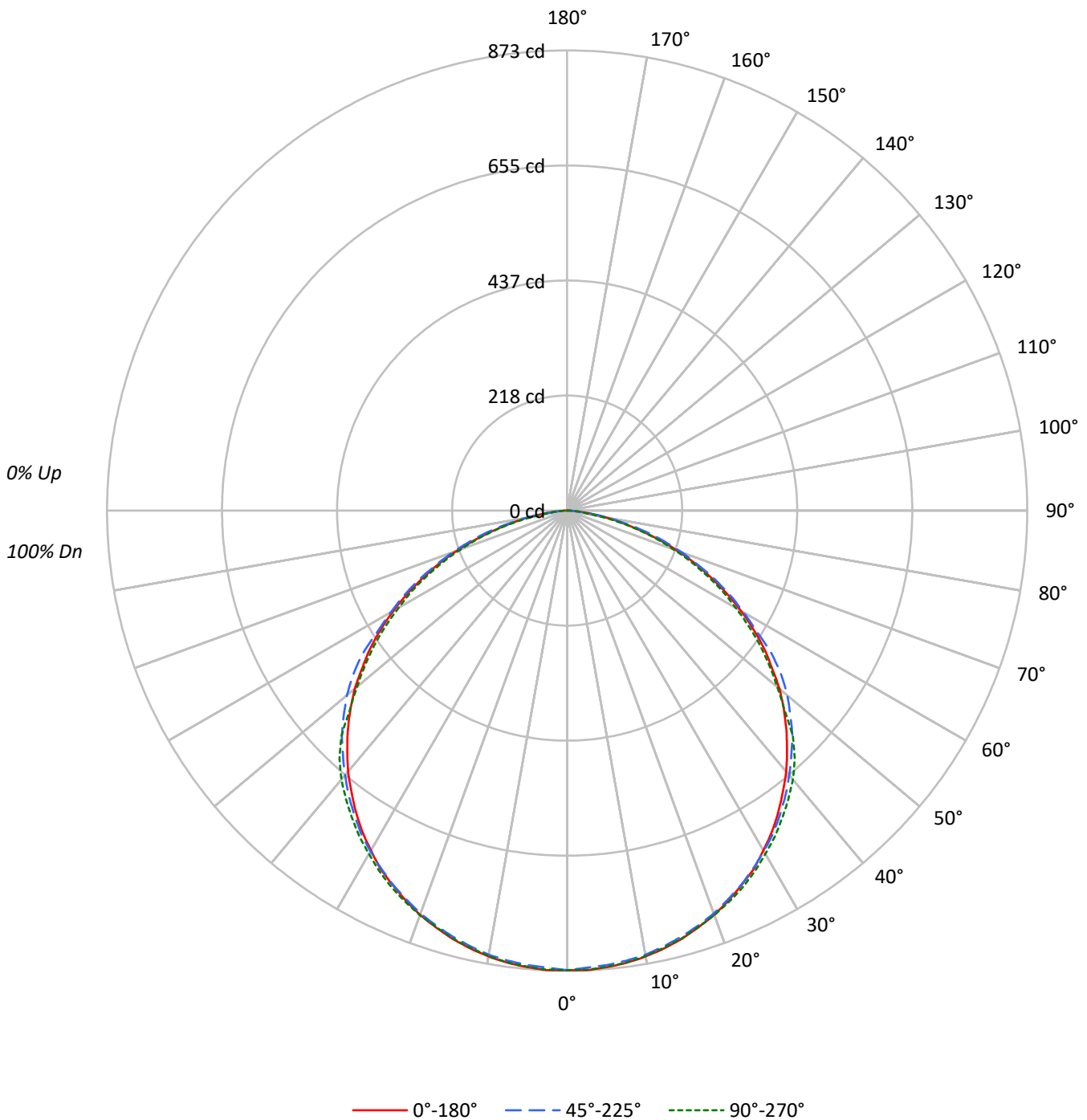
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2346	2346	2346
5°	2348	2338	2346
10°	2347	2338	2345
15°	2343	2332	2341
20°	2336	2330	2339
25°	2326	2324	2341
30°	2314	2319	2336
35°	2295	2313	2337
40°	2271	2303	2340
45°	2239	2300	2304
50°	2202	2283	2178
55°	2140	2224	2099
60°	2049	2080	1989
65°	1919	1971	1868
70°	1747	1817	1689
75°	1458	1592	1432
80°	1155	1218	992
85°	750	651	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.3
10°-20°	237.1	9.5
20°-30°	361.9	14.6
30°-40°	441.2	17.7
40°-50°	462.0	18.6
50°-60°	411.0	16.5
60°-70°	303.2	12.2
70°-80°	156.7	6.3
80°-90°	30.4	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°	681.5	27.4
0°-40°	1122.7	45.2
0°-60°	1995.7	80.3
0°-90°	2486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	869	869	865	869	869	83
15°	841	840	837	840	840	237
25°	784	784	783	788	788	361
35°	698	699	704	712	711	437
45°	588	592	604	610	605	454
55°	456	466	474	454	447	406
65°	301	322	310	299	293	299
75°	140	155	153	141	138	152
85°	24	27	21	19	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	871.8	871.8	871.8	871.8	871.8
2.5°	872.7	871.8	867.8	871.8	871.8
5°	869.4	868.6	865.4	868.6	868.6
7.5°	865.4	864.6	861.3	864.6	864.6
10°	858.9	858.1	855.6	858.9	858.1
12.5°	850.8	850.8	846.7	850.8	849.2
15°	841.1	840.2	837.0	840.2	840.2
17.5°	828.9	828.1	825.7	829.7	828.1
20°	815.9	815.1	813.5	817.6	816.8
22.5°	800.5	800.5	798.1	803.0	803.0
25°	783.5	783.5	782.7	788.4	788.4
27.5°	766.5	764.9	764.9	770.6	771.4
30°	744.6	744.6	746.3	752.7	751.9
32.5°	722.8	723.6	726.8	732.5	733.3
35°	698.5	699.3	704.1	712.2	711.4
37.5°	672.5	675.0	680.6	689.5	689.5
40°	646.6	648.2	655.5	665.2	666.0
42.5°	617.4	621.5	629.6	640.9	639.3
45°	588.3	592.3	604.5	610.1	605.3
47.5°	557.5	562.3	574.5	575.3	559.1
50°	525.9	531.5	545.3	529.1	520.2
52.5°	489.4	499.9	512.1	489.4	483.7
55°	456.2	465.9	474.0	453.8	447.3
57.5°	418.9	431.9	426.2	416.5	408.4
60°	380.8	394.6	386.5	376.8	369.5
62.5°	341.9	357.3	349.2	339.5	333.0
65°	301.4	322.5	309.5	299.0	293.3
67.5°	263.3	283.6	268.2	260.1	254.4
70°	222.0	239.0	230.9	220.4	214.7
72.5°	181.5	194.5	192.0	180.7	176.6
75°	140.2	154.8	153.1	141.0	137.7
77.5°	105.3	119.1	114.2	104.5	100.5
80°	74.5	83.5	78.6	67.3	64.0
82.5°	45.4	52.7	44.6	38.1	34.8
85°	24.3	26.7	21.1	19.4	18.6
87.5°	8.9	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)