

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: P258973

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258973
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-LD5-39-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2694.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

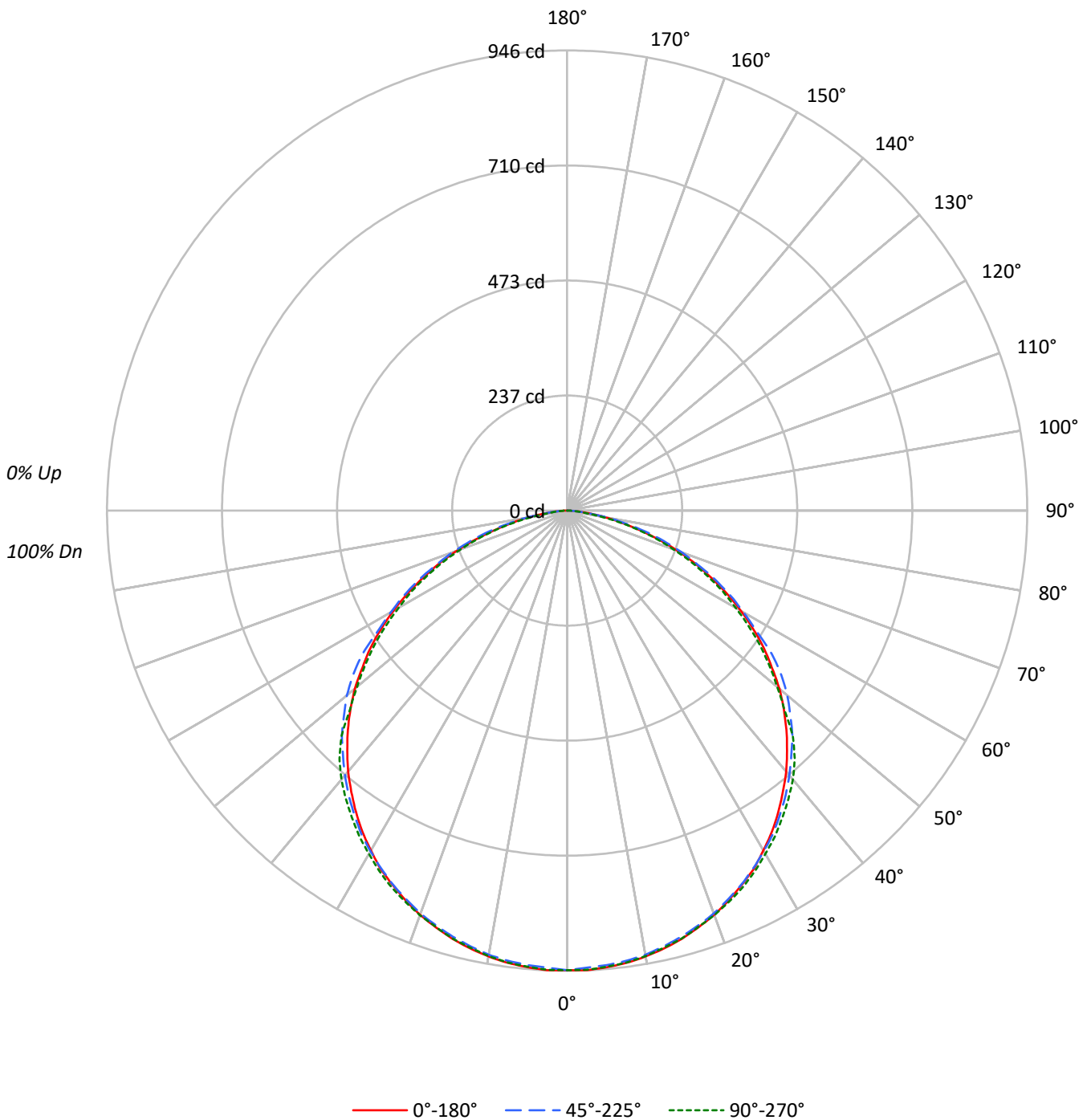
Input Watts (W): 31.713
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2542	2542	2542
5°	2545	2533	2543
10°	2543	2534	2541
15°	2539	2527	2537
20°	2532	2525	2535
25°	2521	2518	2537
30°	2507	2513	2532
35°	2486	2507	2532
40°	2461	2496	2536
45°	2426	2493	2496
50°	2386	2474	2360
55°	2319	2410	2274
60°	2221	2254	2155
65°	2080	2136	2024
70°	1893	1969	1831
75°	1579	1726	1552
80°	1252	1320	1075
85°	812	704	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.3
10°-20°	256.9	9.5
20°-30°	392.2	14.6
30°-40°	478.1	17.7
40°-50°	500.6	18.6
50°-60°	445.4	16.5
60°-70°	328.6	12.2
70°-80°	169.8	6.3
80°-90°	33.0	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°	738.5	27.4
0°-40°	1216.6	45.2
0°-60°	2162.6	80.3
0°-90°	2694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	942	941	938	941	941	90
15°	911	911	907	911	911	257
25°	849	849	848	854	854	392
35°	757	758	763	772	771	473
45°	638	642	655	661	656	492
55°	494	505	514	492	485	441
65°	327	350	335	324	318	324
75°	152	168	166	153	149	164
85°	26	29	23	21	20	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.8	944.8	944.8	944.8	944.8
2.5°	945.7	944.8	940.4	944.8	944.8
5°	942.2	941.3	937.8	941.3	941.3
7.5°	937.8	936.9	933.4	936.9	936.9
10°	930.7	929.9	927.2	930.7	929.9
12.5°	922.0	922.0	917.6	922.0	920.2
15°	911.4	910.6	907.0	910.6	910.6
17.5°	898.3	897.4	894.7	899.1	897.4
20°	884.2	883.3	881.6	886.0	885.1
22.5°	867.5	867.5	864.9	870.2	870.2
25°	849.1	849.1	848.2	854.4	854.4
27.5°	830.6	828.9	828.9	835.0	835.9
30°	806.9	806.9	808.7	815.7	814.8
32.5°	783.2	784.1	787.6	793.8	794.6
35°	756.9	757.8	763.0	771.8	770.9
37.5°	728.8	731.4	737.6	747.2	747.2
40°	700.7	702.5	710.4	720.9	721.8
42.5°	669.1	673.5	682.3	694.5	692.8
45°	637.5	641.9	655.0	661.2	655.9
47.5°	604.1	609.4	622.5	623.4	605.9
50°	569.9	576.0	590.9	573.4	563.7
52.5°	530.4	541.8	554.9	530.4	524.2
55°	494.3	504.9	513.7	491.7	484.7
57.5°	454.0	468.0	461.9	451.3	442.5
60°	412.7	427.6	418.8	408.3	400.4
62.5°	370.5	387.2	378.4	367.9	360.9
65°	326.6	349.5	335.4	324.0	317.9
67.5°	285.4	307.3	290.6	281.9	275.7
70°	240.6	259.0	250.2	238.8	232.7
72.5°	196.7	210.7	208.1	195.8	191.4
75°	151.9	167.7	166.0	152.8	149.3
77.5°	114.1	129.1	123.8	113.3	108.9
80°	80.8	90.4	85.2	72.9	69.4
82.5°	49.2	57.1	48.3	41.3	37.8
85°	26.3	29.0	22.8	21.1	20.2
87.5°	9.7	9.7	9.7	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)