

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: P258972

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258972
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-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: 2658.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

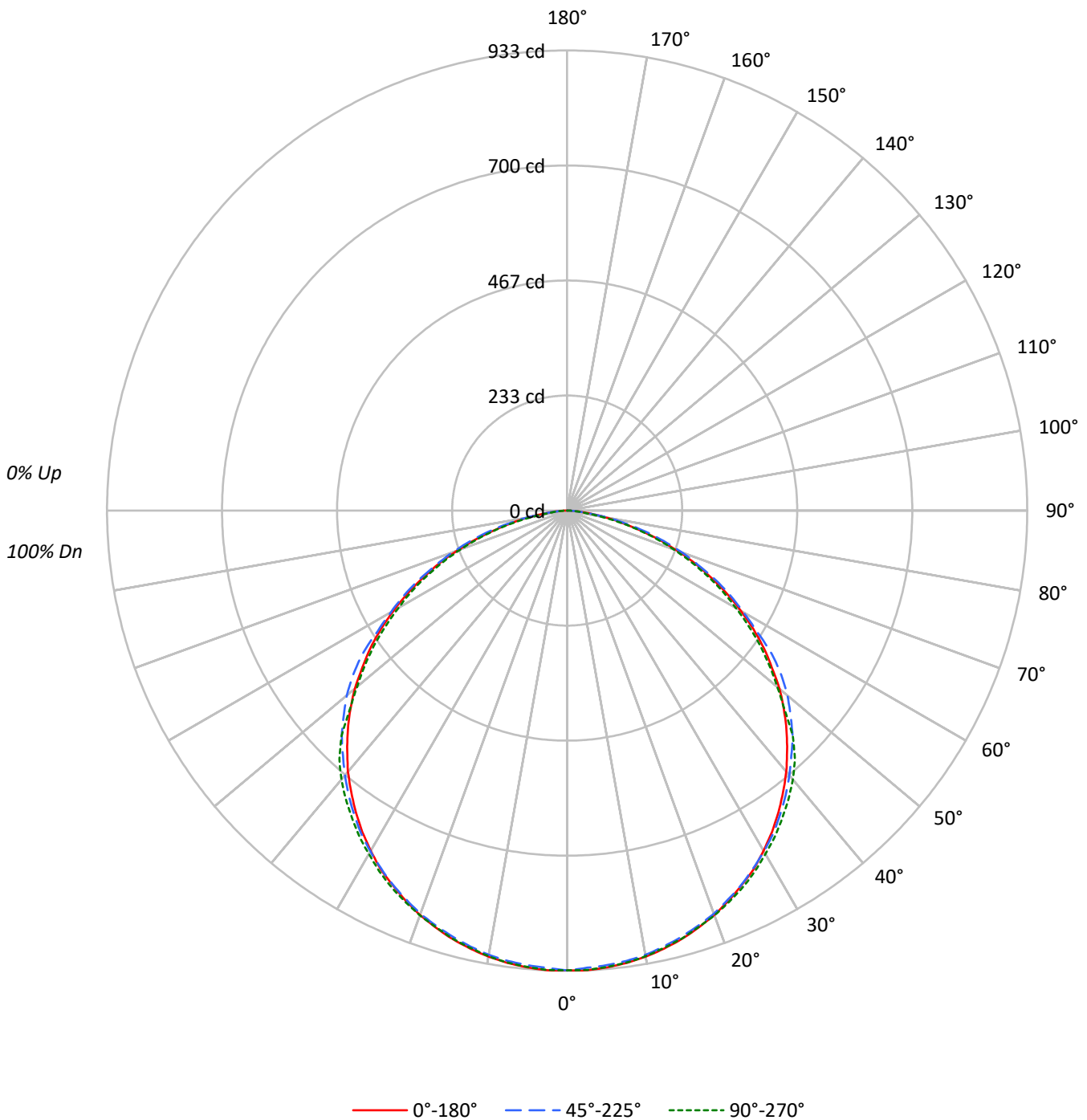
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258972

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P258972

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4500K

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°	2509	2509	2509
5°	2511	2499	2509
10°	2509	2500	2507
15°	2505	2493	2503
20°	2498	2491	2501
25°	2487	2485	2503
30°	2474	2479	2498
35°	2453	2473	2499
40°	2428	2462	2501
45°	2394	2460	2463
50°	2354	2441	2328
55°	2288	2378	2244
60°	2192	2224	2126
65°	2052	2107	1997
70°	1868	1943	1806
75°	1559	1702	1531
80°	1235	1302	1060
85°	803	695	614



TEST NUMBER: P258972

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.3
10°-20°	253.5	9.5
20°-30°	386.9	14.6
30°-40°	471.7	17.7
40°-50°	493.9	18.6
50°-60°	439.4	16.5
60°-70°	324.2	12.2
70°-80°	167.5	6.3
80°-90°	32.5	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°	728.6	27.4
0°-40°	1200.3	45.2
0°-60°	2133.7	80.3
0°-90°	2658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	930	929	925	929	929	88
15°	899	898	895	898	898	254
25°	838	838	837	843	843	386
35°	747	748	753	762	761	467
45°	629	633	646	652	647	485
55°	488	498	507	485	478	435
65°	322	345	331	320	314	319
75°	150	166	164	151	147	162
85°	26	29	22	21	20	34
90°	0	0	0	0	0	



TEST NUMBER: P258972

CATALOG NUMBER: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.2	932.2	932.2	932.2	932.2
2.5°	933.0	932.2	927.8	932.2	932.2
5°	929.6	928.7	925.2	928.7	928.7
7.5°	925.2	924.4	920.9	924.4	924.4
10°	918.3	917.4	914.8	918.3	917.4
12.5°	909.6	909.6	905.3	909.6	907.9
15°	899.3	898.4	894.9	898.4	898.4
17.5°	886.3	885.4	882.8	887.1	885.4
20°	872.4	871.5	869.8	874.1	873.3
22.5°	855.9	855.9	853.3	858.5	858.5
25°	837.7	837.7	836.9	842.9	842.9
27.5°	819.5	817.8	817.8	823.9	824.7
30°	796.2	796.2	797.9	804.8	804.0
32.5°	772.8	773.6	777.1	783.2	784.0
35°	746.8	747.6	752.8	761.5	760.6
37.5°	719.1	721.7	727.7	737.2	737.2
40°	691.3	693.1	700.9	711.3	712.1
42.5°	660.1	664.5	673.1	685.3	683.5
45°	629.0	633.3	646.3	652.3	647.1
47.5°	596.0	601.2	614.2	615.1	597.8
50°	562.2	568.3	583.0	565.7	556.2
52.5°	523.3	534.5	547.5	523.3	517.2
55°	487.7	498.1	506.8	485.1	478.2
57.5°	447.9	461.8	455.7	445.3	436.6
60°	407.2	421.9	413.2	402.8	395.0
62.5°	365.6	382.1	373.4	363.0	356.1
65°	322.3	344.8	330.9	319.7	313.6
67.5°	281.6	303.2	286.8	278.1	272.0
70°	237.4	255.6	246.9	235.6	229.6
72.5°	194.1	207.9	205.3	193.2	188.9
75°	149.9	165.5	163.7	150.7	147.3
77.5°	112.6	127.4	122.2	111.8	107.4
80°	79.7	89.2	84.0	71.9	68.4
82.5°	48.5	56.3	47.6	40.7	37.3
85°	26.0	28.6	22.5	20.8	19.9
87.5°	9.5	9.5	9.5	8.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)