

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: P258883

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258883
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-LD5-29-RDP-UNV-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1972.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

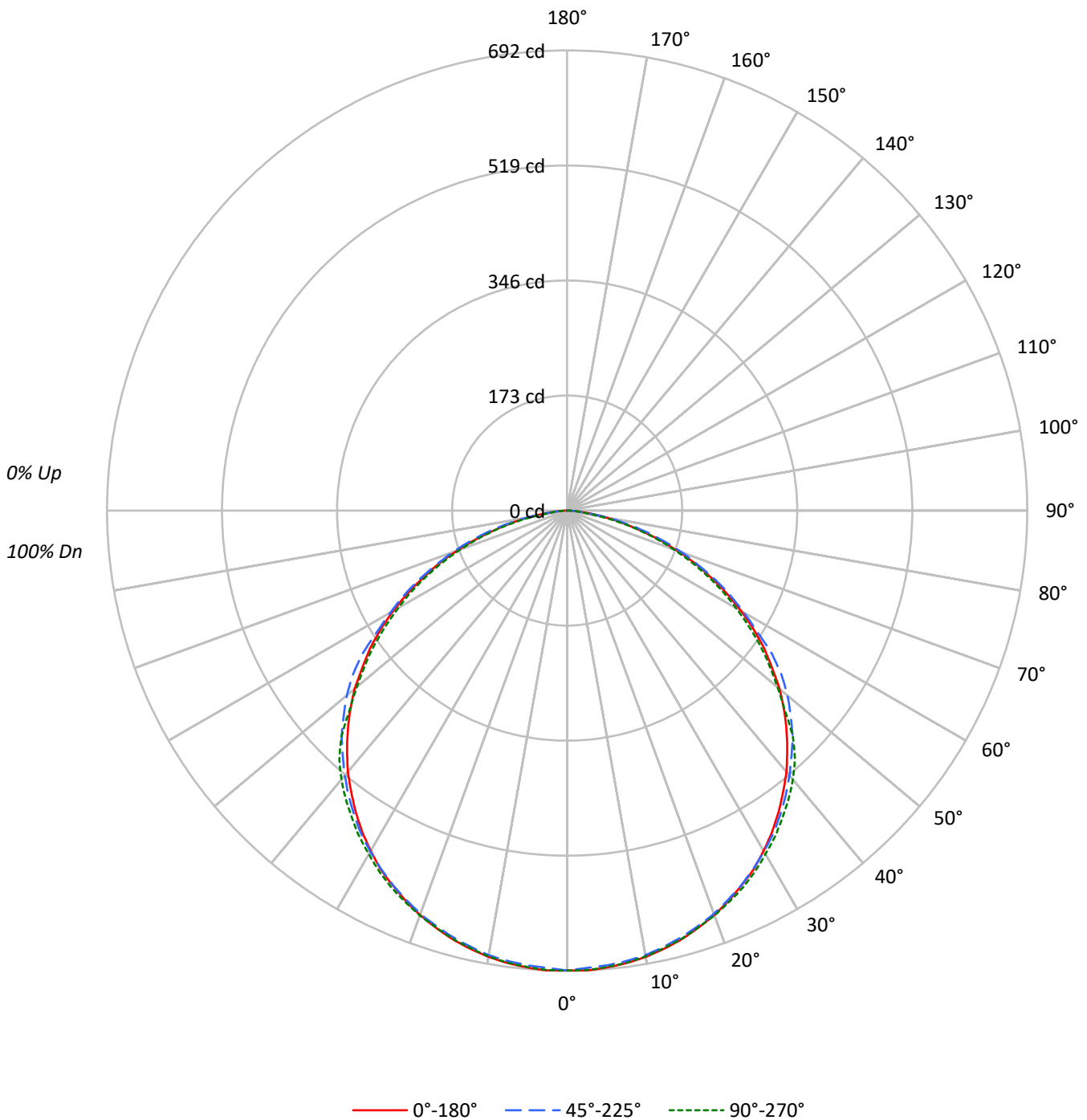
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258883

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258883

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3500K

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°	1861	1861	1861
5°	1863	1854	1861
10°	1862	1855	1860
15°	1859	1850	1857
20°	1853	1848	1855
25°	1845	1844	1857
30°	1835	1840	1853
35°	1820	1835	1854
40°	1802	1827	1856
45°	1776	1825	1827
50°	1746	1811	1727
55°	1698	1764	1665
60°	1626	1650	1577
65°	1522	1563	1482
70°	1386	1441	1340
75°	1156	1263	1136
80°	916	965	787
85°	596	516	457



TEST NUMBER: P258883

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.3
10°-20°	188.0	9.5
20°-30°	287.0	14.6
30°-40°	350.0	17.7
40°-50°	366.5	18.6
50°-60°	326.0	16.5
60°-70°	240.5	12.2
70°-80°	124.3	6.3
80°-90°	24.1	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°	540.6	27.4
0°-40°	890.6	45.2
0°-60°	1583.0	80.3
0°-90°	1972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	690	689	686	689	689	66
15°	667	666	664	666	666	188
25°	622	622	621	625	625	287
35°	554	555	558	565	564	347
45°	467	470	480	484	480	360
55°	362	370	376	360	355	322
65°	239	256	246	237	233	237
75°	111	123	122	112	109	120
85°	19	21	17	15	15	25
90°	0	0	0	0	0	



TEST NUMBER: P258883

CATALOG NUMBER: 14CZ-LD5-29-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.6	691.6	691.6	691.6	691.6
2.5°	692.2	691.6	688.4	691.6	691.6
5°	689.7	689.0	686.4	689.0	689.0
7.5°	686.4	685.8	683.2	685.8	685.8
10°	681.3	680.7	678.7	681.3	680.7
12.5°	674.9	674.9	671.7	674.9	673.6
15°	667.2	666.5	664.0	666.5	666.5
17.5°	657.5	656.9	655.0	658.2	656.9
20°	647.2	646.6	645.3	648.5	647.9
22.5°	635.0	635.0	633.1	637.0	637.0
25°	621.5	621.5	620.9	625.4	625.4
27.5°	608.0	606.7	606.7	611.2	611.9
30°	590.7	590.7	592.0	597.1	596.5
32.5°	573.3	574.0	576.5	581.0	581.7
35°	554.0	554.7	558.5	565.0	564.3
37.5°	533.5	535.4	539.9	547.0	547.0
40°	512.9	514.2	520.0	527.7	528.3
42.5°	489.8	493.0	499.4	508.4	507.1
45°	466.6	469.8	479.5	484.0	480.1
47.5°	442.2	446.1	455.7	456.3	443.5
50°	417.1	421.6	432.6	419.7	412.6
52.5°	388.2	396.6	406.2	388.2	383.7
55°	361.9	369.6	376.0	359.9	354.8
57.5°	332.3	342.6	338.1	330.4	323.9
60°	302.1	313.0	306.6	298.9	293.1
62.5°	271.2	283.4	277.0	269.3	264.2
65°	239.1	255.8	245.5	237.2	232.7
67.5°	208.9	225.0	212.7	206.3	201.8
70°	176.1	189.6	183.2	174.8	170.3
72.5°	144.0	154.3	152.3	143.3	140.1
75°	111.2	122.8	121.5	111.8	109.3
77.5°	83.6	94.5	90.6	82.9	79.7
80°	59.1	66.2	62.3	53.3	50.8
82.5°	36.0	41.8	35.4	30.2	27.6
85°	19.3	21.2	16.7	15.4	14.8
87.5°	7.1	7.1	7.1	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)