

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: P258919

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258919
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-LD5-35-RDP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2176.0 lumens
Efficiency: N/A
Efficacy: 77.2 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

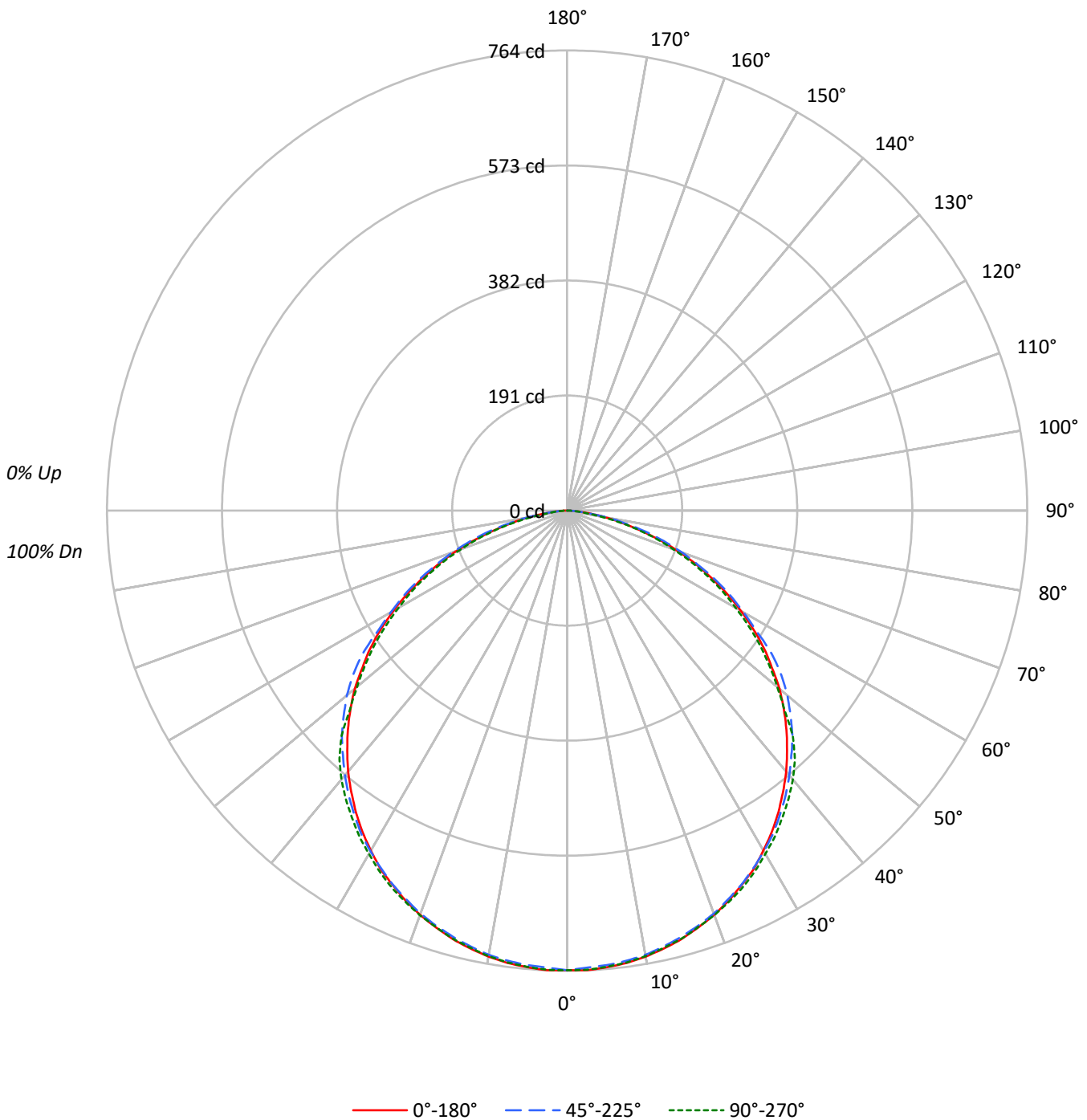
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258919

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P258919

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-4000K

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°	2053	2053	2053
5°	2056	2046	2054
10°	2054	2046	2052
15°	2051	2041	2049
20°	2045	2039	2047
25°	2036	2034	2049
30°	2025	2030	2045
35°	2008	2025	2046
40°	1988	2016	2048
45°	1960	2014	2016
50°	1927	1998	1906
55°	1873	1947	1837
60°	1794	1821	1741
65°	1680	1725	1635
70°	1529	1590	1478
75°	1276	1393	1254
80°	1010	1066	868
85°	658	568	503



TEST NUMBER: P258919

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	3.3
10°-20°	207.5	9.5
20°-30°	316.7	14.6
30°-40°	386.2	17.7
40°-50°	404.4	18.6
50°-60°	359.8	16.5
60°-70°	265.4	12.2
70°-80°	137.1	6.3
80°-90°	26.6	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°	596.5	27.4
0°-40°	982.7	45.2
0°-60°	1746.8	80.3
0°-90°	2176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	761	760	758	760	760	72
15°	736	736	733	736	736	208
25°	686	686	685	690	690	316
35°	611	612	616	623	623	382
45°	515	518	529	534	530	397
55°	399	408	415	397	392	356
65°	264	282	271	262	257	262
75°	123	136	134	123	121	133
85°	21	23	18	17	16	28
90°	0	0	0	0	0	



TEST NUMBER: P258919

CATALOG NUMBER: 14CZ-LD5-35-RDP-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	763.1	763.1	763.1	763.1	763.1
2.5°	763.8	763.1	759.6	763.1	763.1
5°	761.0	760.3	757.5	760.3	760.3
7.5°	757.5	756.7	753.9	756.7	756.7
10°	751.8	751.1	748.9	751.8	751.1
12.5°	744.7	744.7	741.1	744.7	743.3
15°	736.2	735.5	732.6	735.5	735.5
17.5°	725.5	724.8	722.7	726.3	724.8
20°	714.2	713.5	712.1	715.6	714.9
22.5°	700.7	700.7	698.6	702.8	702.8
25°	685.8	685.8	685.1	690.1	690.1
27.5°	670.9	669.5	669.5	674.5	675.2
30°	651.8	651.8	653.2	658.9	658.2
32.5°	632.6	633.3	636.2	641.1	641.9
35°	611.4	612.1	616.3	623.4	622.7
37.5°	588.7	590.8	595.8	603.6	603.6
40°	566.0	567.4	573.8	582.3	583.0
42.5°	540.4	544.0	551.1	561.0	559.6
45°	514.9	518.4	529.1	534.1	529.8
47.5°	488.0	492.2	502.8	503.6	489.4
50°	460.3	465.3	477.3	463.1	455.3
52.5°	428.4	437.6	448.2	428.4	423.4
55°	399.3	407.8	414.9	397.2	391.5
57.5°	366.7	378.0	373.1	364.5	357.5
60°	333.3	345.4	338.3	329.8	323.4
62.5°	299.3	312.8	305.7	297.2	291.5
65°	263.8	282.3	270.9	261.7	256.7
67.5°	230.5	248.2	234.8	227.7	222.7
70°	194.3	209.2	202.1	192.9	187.9
72.5°	158.9	170.2	168.1	158.2	154.6
75°	122.7	135.5	134.0	123.4	120.6
77.5°	92.2	104.3	100.0	91.5	87.9
80°	65.2	73.1	68.8	58.9	56.0
82.5°	39.7	46.1	39.0	33.3	30.5
85°	21.3	23.4	18.4	17.0	16.3
87.5°	7.8	7.8	7.8	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)