

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: P258959

Luminaire Tested: **14CZ-LD5-35-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258959
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-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2175.0 lumens
Efficiency: N/A
Efficacy: 79.3 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

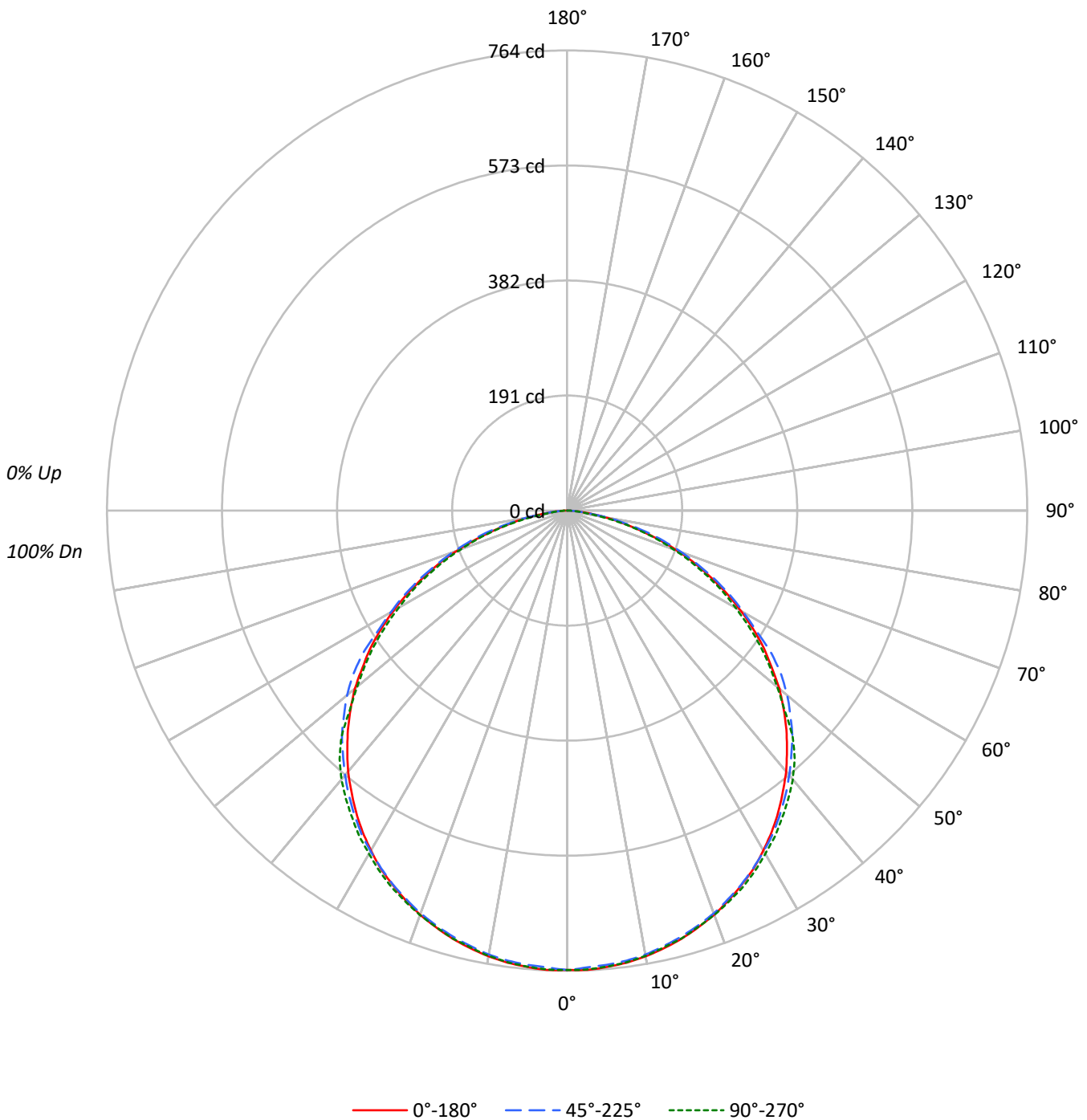
Input Watts (W): 27.435
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2053	2053	2053
5°	2055	2045	2053
10°	2053	2046	2051
15°	2050	2040	2048
20°	2044	2038	2046
25°	2035	2033	2048
30°	2024	2029	2044
35°	2008	2024	2045
40°	1987	2015	2047
45°	1959	2012	2015
50°	1926	1997	1905
55°	1872	1946	1836
60°	1793	1820	1740
65°	1679	1724	1634
70°	1528	1589	1478
75°	1275	1393	1253
80°	1010	1066	868
85°	658	568	503



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	3.3
10°-20°	207.4	9.5
20°-30°	316.6	14.6
30°-40°	386.0	17.7
40°-50°	404.2	18.6
50°-60°	359.6	16.5
60°-70°	265.3	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°	596.2	27.4
0°-40°	982.2	45.2
0°-60°	1746.0	80.3
0°-90°	2175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	761	760	757	760	760	72
15°	736	735	732	735	735	208
25°	686	686	685	690	690	316
35°	611	612	616	623	622	382
45°	515	518	529	534	530	397
55°	399	408	415	397	391	356
65°	264	282	271	262	257	261
75°	123	135	134	123	120	133
85°	21	23	18	17	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.8	762.8	762.8	762.8	762.8
2.5°	763.5	762.8	759.2	762.8	762.8
5°	760.7	759.9	757.1	759.9	759.9
7.5°	757.1	756.4	753.6	756.4	756.4
10°	751.4	750.7	748.6	751.4	750.7
12.5°	744.3	744.3	740.8	744.3	742.9
15°	735.8	735.1	732.3	735.1	735.1
17.5°	725.2	724.5	722.4	725.9	724.5
20°	713.9	713.2	711.7	715.3	714.6
22.5°	700.4	700.4	698.3	702.5	702.5
25°	685.5	685.5	684.8	689.8	689.8
27.5°	670.6	669.2	669.2	674.2	674.9
30°	651.5	651.5	652.9	658.6	657.9
32.5°	632.3	633.1	635.9	640.8	641.6
35°	611.1	611.8	616.0	623.1	622.4
37.5°	588.4	590.5	595.5	603.3	603.3
40°	565.7	567.1	573.5	582.0	582.7
42.5°	540.2	543.7	550.8	560.7	559.3
45°	514.7	518.2	528.8	533.8	529.6
47.5°	487.7	492.0	502.6	503.3	489.1
50°	460.1	465.0	477.1	462.9	455.1
52.5°	428.2	437.4	448.0	428.2	423.2
55°	399.1	407.6	414.7	397.0	391.3
57.5°	366.5	377.8	372.9	364.4	357.3
60°	333.2	345.2	338.1	329.6	323.3
62.5°	299.2	312.6	305.5	297.0	291.4
65°	263.7	282.1	270.8	261.6	256.6
67.5°	230.4	248.1	234.6	227.6	222.6
70°	194.2	209.1	202.0	192.8	187.9
72.5°	158.8	170.1	168.0	158.1	154.5
75°	122.6	135.4	134.0	123.3	120.5
77.5°	92.2	104.2	100.0	91.4	87.9
80°	65.2	73.0	68.8	58.8	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)