

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: P258952

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258952
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-L82765-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: 1925.0 lumens
Efficiency: N/A
Efficacy: 86.6 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

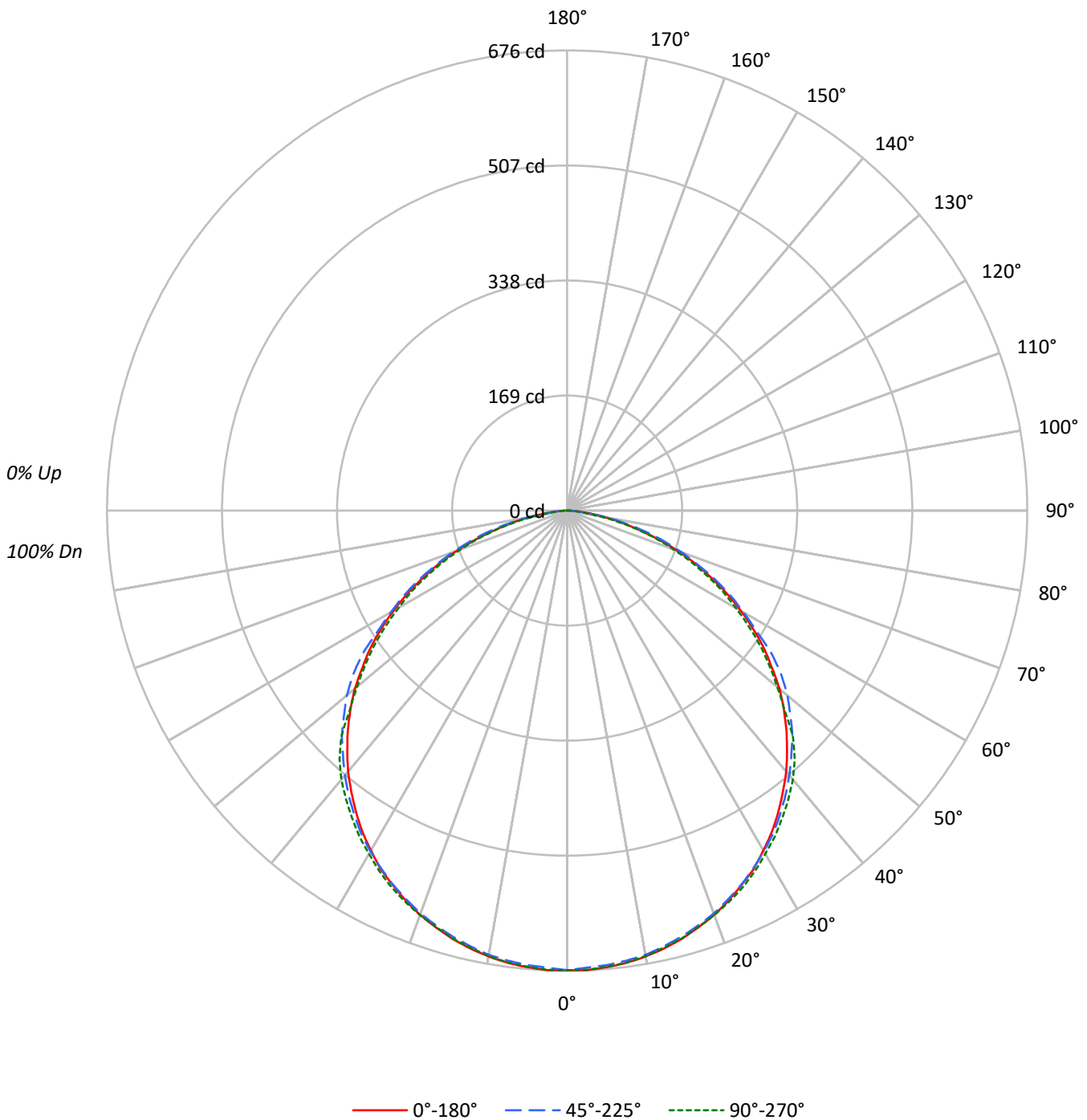
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1817	1817	1817
5°	1818	1810	1817
10°	1817	1811	1815
15°	1814	1806	1813
20°	1809	1804	1811
25°	1801	1800	1813
30°	1792	1796	1809
35°	1777	1791	1810
40°	1759	1783	1812
45°	1733	1781	1784
50°	1705	1768	1686
55°	1657	1722	1625
60°	1587	1611	1540
65°	1486	1526	1446
70°	1352	1407	1308
75°	1128	1233	1109
80°	894	944	769
85°	580	503	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.3
10°-20°	183.6	9.5
20°-30°	280.2	14.6
30°-40°	341.6	17.7
40°-50°	357.7	18.6
50°-60°	318.3	16.5
60°-70°	234.8	12.2
70°-80°	121.3	6.3
80°-90°	23.6	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°	527.7	27.4
0°-40°	869.3	45.2
0°-60°	1545.3	80.3
0°-90°	1925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	673	673	670	673	673	64
15°	651	651	648	651	651	184
25°	607	607	606	610	610	280
35°	541	542	545	552	551	338
45°	456	459	468	472	469	351
55°	353	361	367	351	346	315
65°	233	250	240	232	227	231
75°	108	120	119	109	107	117
85°	19	21	16	15	14	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	675.1	675.1	675.1	675.1	675.1
2.5°	675.7	675.1	672.0	675.1	675.1
5°	673.2	672.6	670.1	672.6	672.6
7.5°	670.1	669.5	666.9	669.5	669.5
10°	665.1	664.4	662.6	665.1	664.4
12.5°	658.8	658.8	655.7	658.8	657.5
15°	651.3	650.6	648.1	650.6	650.6
17.5°	641.9	641.2	639.3	642.5	641.2
20°	631.8	631.2	629.9	633.1	632.4
22.5°	619.9	619.9	618.0	621.8	621.8
25°	606.7	606.7	606.1	610.5	610.5
27.5°	593.5	592.3	592.3	596.7	597.3
30°	576.6	576.6	577.9	582.9	582.2
32.5°	559.7	560.3	562.8	567.2	567.8
35°	540.8	541.5	545.2	551.5	550.9
37.5°	520.8	522.6	527.0	533.9	533.9
40°	500.7	501.9	507.6	515.1	515.7
42.5°	478.1	481.2	487.5	496.3	495.0
45°	455.5	458.6	468.1	472.4	468.7
47.5°	431.7	435.4	444.8	445.5	432.9
50°	407.2	411.6	422.3	409.7	402.8
52.5°	379.0	387.1	396.5	379.0	374.6
55°	353.2	360.8	367.0	351.4	346.3
57.5°	324.4	334.4	330.0	322.5	316.2
60°	294.9	305.6	299.3	291.8	286.1
62.5°	264.8	276.7	270.4	262.9	257.9
65°	233.4	249.7	239.7	231.5	227.1
67.5°	203.9	219.6	207.7	201.4	197.0
70°	171.9	185.1	178.8	170.7	166.3
72.5°	140.5	150.6	148.7	139.9	136.8
75°	108.5	119.8	118.6	109.2	106.7
77.5°	81.6	92.2	88.5	80.9	77.8
80°	57.7	64.6	60.9	52.1	49.6
82.5°	35.1	40.8	34.5	29.5	27.0
85°	18.8	20.7	16.3	15.1	14.4
87.5°	6.9	6.9	6.9	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)