

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: P258954

Luminaire Tested: **14CZ-LD5-29-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258954
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-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: 2003.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

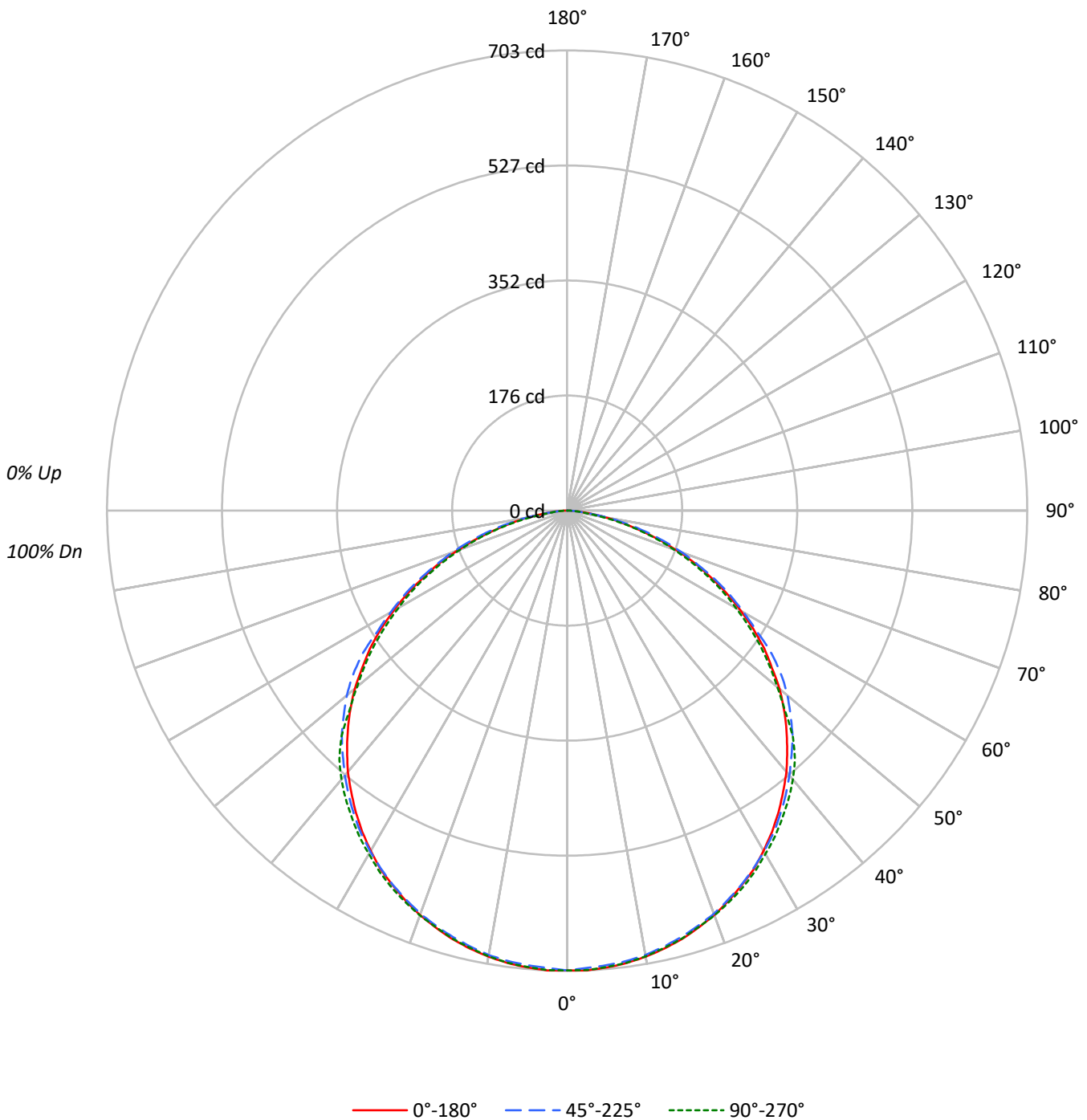
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1890	1890	1890
5°	1892	1883	1890
10°	1891	1884	1889
15°	1888	1879	1886
20°	1883	1877	1885
25°	1874	1872	1886
30°	1864	1868	1882
35°	1849	1864	1883
40°	1830	1855	1885
45°	1804	1853	1856
50°	1774	1840	1755
55°	1725	1792	1691
60°	1651	1676	1602
65°	1547	1588	1505
70°	1408	1464	1361
75°	1174	1283	1154
80°	931	981	800
85°	605	525	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.3
10°-20°	191.0	9.5
20°-30°	291.6	14.6
30°-40°	355.5	17.7
40°-50°	372.2	18.6
50°-60°	331.2	16.5
60°-70°	244.3	12.2
70°-80°	126.2	6.3
80°-90°	24.5	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°	549.1	27.4
0°-40°	904.6	45.2
0°-60°	1607.9	80.3
0°-90°	2003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	700	700	697	700	700	67
15°	678	677	674	677	677	191
25°	631	631	631	635	635	291
35°	563	563	567	574	573	352
45°	474	477	487	492	488	365
55°	368	375	382	366	360	328
65°	243	260	249	241	236	241
75°	113	125	123	114	111	122
85°	20	22	17	16	15	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.5	702.5	702.5	702.5	702.5
2.5°	703.1	702.5	699.2	702.5	702.5
5°	700.5	699.8	697.2	699.8	699.8
7.5°	697.2	696.6	694.0	696.6	696.6
10°	692.0	691.4	689.4	692.0	691.4
12.5°	685.5	685.5	682.2	685.5	684.2
15°	677.7	677.0	674.4	677.0	677.0
17.5°	667.9	667.2	665.2	668.5	667.2
20°	657.4	656.8	655.5	658.7	658.1
22.5°	645.0	645.0	643.1	647.0	647.0
25°	631.3	631.3	630.6	635.2	635.2
27.5°	617.6	616.3	616.3	620.9	621.5
30°	600.0	600.0	601.3	606.5	605.8
32.5°	582.3	583.0	585.6	590.2	590.8
35°	562.8	563.4	567.3	573.8	573.2
37.5°	541.9	543.8	548.4	555.6	555.6
40°	521.0	522.3	528.2	536.0	536.6
42.5°	497.5	500.7	507.3	516.4	515.1
45°	474.0	477.2	487.0	491.6	487.7
47.5°	449.2	453.1	462.9	463.5	450.5
50°	423.7	428.3	439.4	426.3	419.1
52.5°	394.3	402.8	412.6	394.3	389.7
55°	367.6	375.4	381.9	365.6	360.4
57.5°	337.5	348.0	343.4	335.6	329.0
60°	306.8	317.9	311.4	303.6	297.7
62.5°	275.5	287.9	281.4	273.5	268.3
65°	242.9	259.8	249.4	240.9	236.3
67.5°	212.2	228.5	216.1	209.6	205.0
70°	178.9	192.6	186.1	177.6	173.0
72.5°	146.2	156.7	154.7	145.6	142.3
75°	112.9	124.7	123.4	113.6	111.0
77.5°	84.9	96.0	92.1	84.2	81.0
80°	60.1	67.2	63.3	54.2	51.6
82.5°	36.6	42.4	35.9	30.7	28.1
85°	19.6	21.5	17.0	15.7	15.0
87.5°	7.2	7.2	7.2	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)