

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: P275878

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2237.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

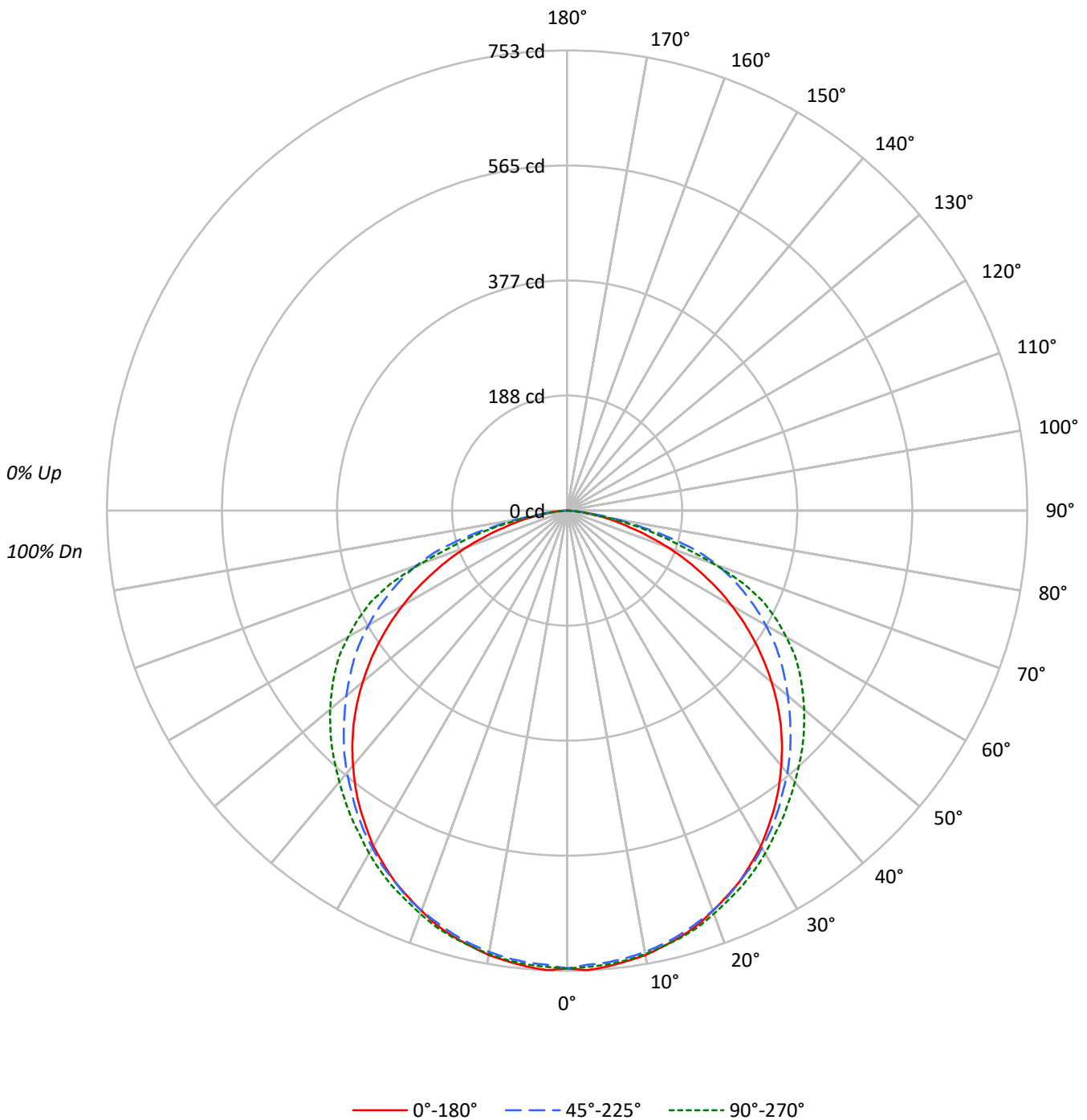
Input Watts (W): 31.527
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2016	2016	2016
5°	2024	2005	2014
10°	2018	2004	2014
15°	2009	2000	2014
20°	1995	1995	2011
25°	1986	1986	2012
30°	1970	1981	2013
35°	1945	1974	2020
40°	1914	1969	2037
45°	1881	1968	2074
50°	1828	1974	2120
55°	1762	1999	2180
60°	1673	2021	2228
65°	1546	2046	2257
70°	1374	2061	2020
75°	1107	1852	1616
80°	866	1299	1055
85°	593	377	269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	3.2
10°-20°	203.5	9.1
20°-30°	309.8	13.8
30°-40°	377.3	16.9
40°-50°	400.3	17.9
50°-60°	377.8	16.9
60°-70°	305.1	13.6
70°-80°	165.5	7.4
80°-90°	26.8	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°	584.2	26.1
0°-40°	961.5	43.0
0°-60°	1739.7	77.8
0°-90°	2237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	749	748	742	748	746	71
15°	721	720	718	723	723	204
25°	669	667	669	676	678	308
35°	592	596	601	613	615	370
45°	494	501	517	536	545	381
55°	376	391	426	454	465	335
65°	243	272	321	348	354	241
75°	106	155	178	161	155	116
85°	19	21	12	10	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.2	749.2	749.2	749.2	749.2
2.5°	752.7	749.2	744.0	749.2	747.5
5°	749.2	747.5	742.2	747.5	745.7
7.5°	744.0	744.0	738.7	742.2	742.2
10°	738.7	737.0	733.5	738.7	737.0
12.5°	730.0	728.3	726.5	731.8	730.0
15°	721.3	719.5	717.8	723.0	723.0
17.5°	710.8	709.1	707.3	714.3	714.3
20°	696.8	696.8	696.8	703.8	702.1
22.5°	682.9	682.9	684.6	691.6	689.8
25°	668.9	667.1	668.9	675.9	677.6
27.5°	651.4	653.2	654.9	661.9	663.7
30°	634.0	635.7	637.5	646.2	647.9
32.5°	613.0	616.5	620.0	630.5	630.5
35°	592.0	595.5	600.8	613.0	614.8
37.5°	569.3	572.8	579.8	593.8	597.3
40°	544.9	550.1	560.6	574.6	579.8
42.5°	520.4	527.4	539.7	555.4	562.4
45°	494.2	501.2	517.0	536.2	544.9
47.5°	466.3	475.0	494.2	518.7	525.7
50°	436.6	448.8	471.5	497.7	506.5
52.5°	406.9	420.9	448.8	476.8	485.5
55°	375.5	391.2	426.1	454.1	464.6
57.5°	344.1	361.5	401.7	431.4	441.9
60°	310.9	331.8	375.5	405.2	413.9
62.5°	277.7	302.1	349.3	379.0	386.0
65°	242.8	272.4	321.3	347.5	354.5
67.5°	209.6	244.5	293.4	312.6	312.6
70°	174.6	213.1	262.0	267.2	256.7
72.5°	139.7	183.4	227.0	207.8	199.1
75°	106.5	155.4	178.1	160.7	155.4
77.5°	80.3	125.7	125.7	115.3	111.8
80°	55.9	96.1	83.8	73.4	68.1
82.5°	36.7	54.1	43.7	34.9	29.7
85°	19.2	21.0	12.2	10.5	8.7
87.5°	7.0	3.5	1.7	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)