

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: P275884

Luminaire Tested: **14CZ2-44-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275884
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: 14CZ2-44-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2249.0 lumens
Efficiency: N/A
Efficacy: 63.8 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

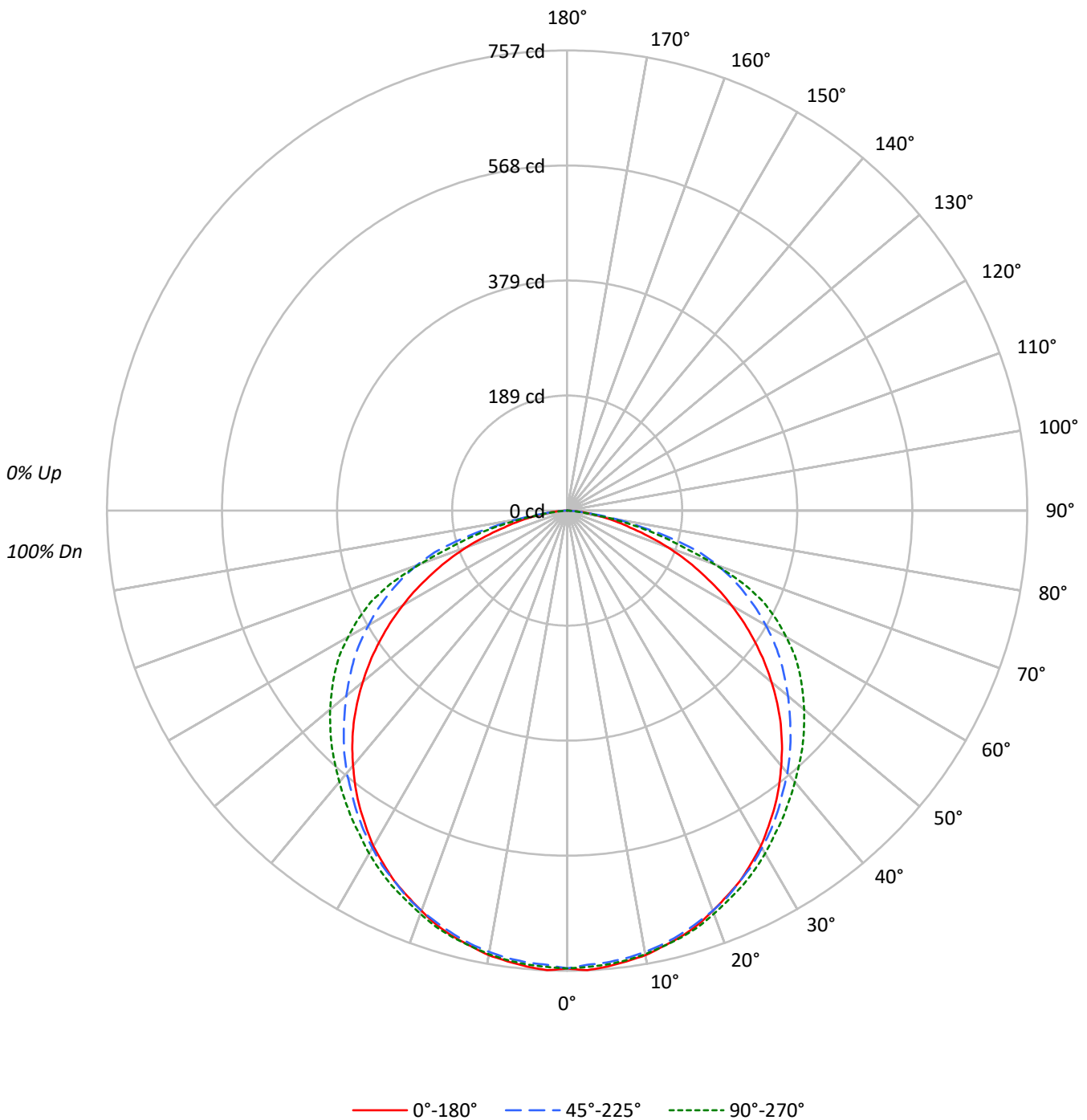
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2027	2027	2027
5°	2035	2016	2025
10°	2029	2015	2025
15°	2020	2010	2025
20°	2006	2006	2021
25°	1997	1997	2023
30°	1981	1991	2024
35°	1955	1984	2030
40°	1924	1980	2048
45°	1891	1978	2085
50°	1838	1985	2132
55°	1771	2010	2191
60°	1682	2032	2239
65°	1554	2057	2269
70°	1382	2072	2031
75°	1114	1862	1625
80°	871	1306	1062
85°	596	380	272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.2
10°-20°	204.6	9.1
20°-30°	311.5	13.8
30°-40°	379.4	16.9
40°-50°	402.5	17.9
50°-60°	379.8	16.9
60°-70°	306.7	13.6
70°-80°	166.4	7.4
80°-90°	26.9	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°	587.3	26.1
0°-40°	966.7	43.0
0°-60°	1749.0	77.8
0°-90°	2249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2249.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	753	752	746	752	750	72
15°	725	723	722	727	727	205
25°	672	671	672	680	681	310
35°	595	599	604	616	618	372
45°	497	504	520	539	548	383
55°	378	393	428	456	467	337
65°	244	274	323	349	356	242
75°	107	156	179	162	156	117
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°	753.2	753.2	753.2	753.2	753.2
2.5°	756.8	753.2	748.0	753.2	751.5
5°	753.2	751.5	746.2	751.5	749.7
7.5°	748.0	748.0	742.7	746.2	746.2
10°	742.7	741.0	737.4	742.7	741.0
12.5°	733.9	732.2	730.4	735.7	733.9
15°	725.2	723.4	721.6	726.9	726.9
17.5°	714.6	712.9	711.1	718.1	718.1
20°	700.6	700.6	700.6	707.6	705.8
22.5°	686.5	686.5	688.3	695.3	693.5
25°	672.5	670.7	672.5	679.5	681.3
27.5°	654.9	656.7	658.4	665.5	667.2
30°	637.4	639.1	640.9	649.7	651.4
32.5°	616.3	619.8	623.3	633.9	633.9
35°	595.2	598.7	604.0	616.3	618.0
37.5°	572.4	575.9	582.9	597.0	600.5
40°	547.8	553.1	563.6	577.7	582.9
42.5°	523.2	530.3	542.5	558.4	565.4
45°	496.9	503.9	519.7	539.0	547.8
47.5°	468.8	477.6	496.9	521.5	528.5
50°	439.0	451.2	474.1	500.4	509.2
52.5°	409.1	423.2	451.2	479.3	488.1
55°	377.5	393.3	428.4	456.5	467.0
57.5°	345.9	363.5	403.8	433.7	444.2
60°	312.5	333.6	377.5	407.4	416.1
62.5°	279.2	303.8	351.2	381.0	388.0
65°	244.1	273.9	323.1	349.4	356.4
67.5°	210.7	245.8	295.0	314.3	314.3
70°	175.6	214.2	263.4	268.6	258.1
72.5°	140.5	184.4	228.3	208.9	200.2
75°	107.1	156.3	179.1	161.5	156.3
77.5°	80.8	126.4	126.4	115.9	112.4
80°	56.2	96.6	84.3	73.7	68.5
82.5°	36.9	54.4	43.9	35.1	29.8
85°	19.3	21.1	12.3	10.5	8.8
87.5°	7.0	3.5	1.8	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)