

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: P275815

Luminaire Tested: **14CZ2-35-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275815
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: 14CZ2-35-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2272.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

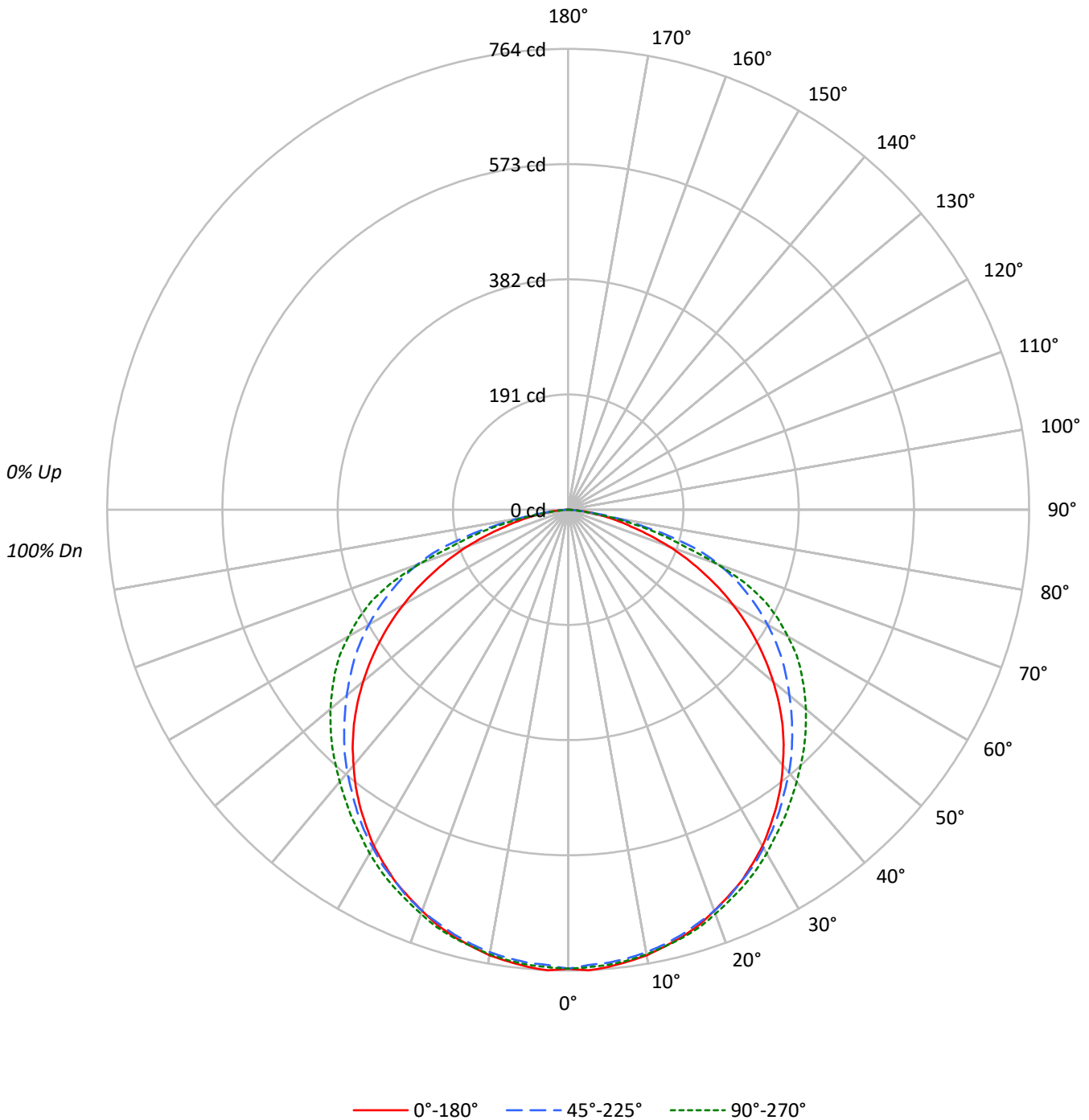
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2048	2048	2048
5°	2056	2036	2046
10°	2050	2036	2045
15°	2041	2031	2046
20°	2027	2027	2042
25°	2017	2017	2043
30°	2001	2012	2045
35°	1975	2005	2051
40°	1944	2000	2069
45°	1910	1998	2106
50°	1856	2005	2153
55°	1789	2031	2213
60°	1699	2053	2263
65°	1570	2078	2293
70°	1396	2094	2051
75°	1125	1881	1642
80°	880	1319	1072
85°	602	383	275



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.2
10°-20°	206.6	9.1
20°-30°	314.7	13.8
30°-40°	383.2	16.9
40°-50°	406.6	17.9
50°-60°	383.7	16.9
60°-70°	309.8	13.6
70°-80°	168.1	7.4
80°-90°	27.2	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°	593.3	26.1
0°-40°	976.6	43.0
0°-60°	1766.9	77.8
0°-90°	2272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	761	759	754	759	757	72
15°	733	731	729	734	734	207
25°	679	678	679	686	688	313
35°	601	605	610	623	624	376
45°	502	509	525	544	553	387
55°	381	397	433	461	472	341
65°	247	277	326	353	360	244
75°	108	158	181	163	158	118
85°	20	21	12	11	9	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.0	761.0	761.0	761.0	761.0
2.5°	764.5	761.0	755.6	761.0	759.2
5°	761.0	759.2	753.9	759.2	757.4
7.5°	755.6	755.6	750.3	753.9	753.9
10°	750.3	748.5	745.0	750.3	748.5
12.5°	741.4	739.7	737.9	743.2	741.4
15°	732.6	730.8	729.0	734.3	734.3
17.5°	721.9	720.2	718.4	725.5	725.5
20°	707.7	707.7	707.7	714.8	713.1
22.5°	693.5	693.5	695.3	702.4	700.6
25°	679.4	677.6	679.4	686.5	688.2
27.5°	661.6	663.4	665.2	672.3	674.0
30°	643.9	645.7	647.4	656.3	658.1
32.5°	622.6	626.1	629.7	640.3	640.3
35°	601.3	604.9	610.2	622.6	624.4
37.5°	578.3	581.8	588.9	603.1	606.6
40°	553.4	558.7	569.4	583.6	588.9
42.5°	528.6	535.7	548.1	564.1	571.2
45°	502.0	509.1	525.0	544.5	553.4
47.5°	473.6	482.5	502.0	526.8	533.9
50°	443.4	455.9	478.9	505.5	514.4
52.5°	413.3	427.5	455.9	484.2	493.1
55°	381.4	397.3	432.8	461.2	471.8
57.5°	349.4	367.2	408.0	438.1	448.8
60°	315.7	337.0	381.4	411.5	420.4
62.5°	282.0	306.9	354.8	384.9	392.0
65°	246.6	276.7	326.4	353.0	360.1
67.5°	212.9	248.3	298.0	317.5	317.5
70°	177.4	216.4	266.1	271.4	260.7
72.5°	141.9	186.2	230.6	211.1	202.2
75°	108.2	157.9	180.9	163.2	157.9
77.5°	81.6	127.7	127.7	117.1	113.5
80°	56.8	97.6	85.1	74.5	69.2
82.5°	37.2	55.0	44.3	35.5	30.2
85°	19.5	21.3	12.4	10.6	8.9
87.5°	7.1	3.5	1.8	3.5	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)