

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: P275814

Luminaire Tested: **14CZ2-35-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275814  
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-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2233.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

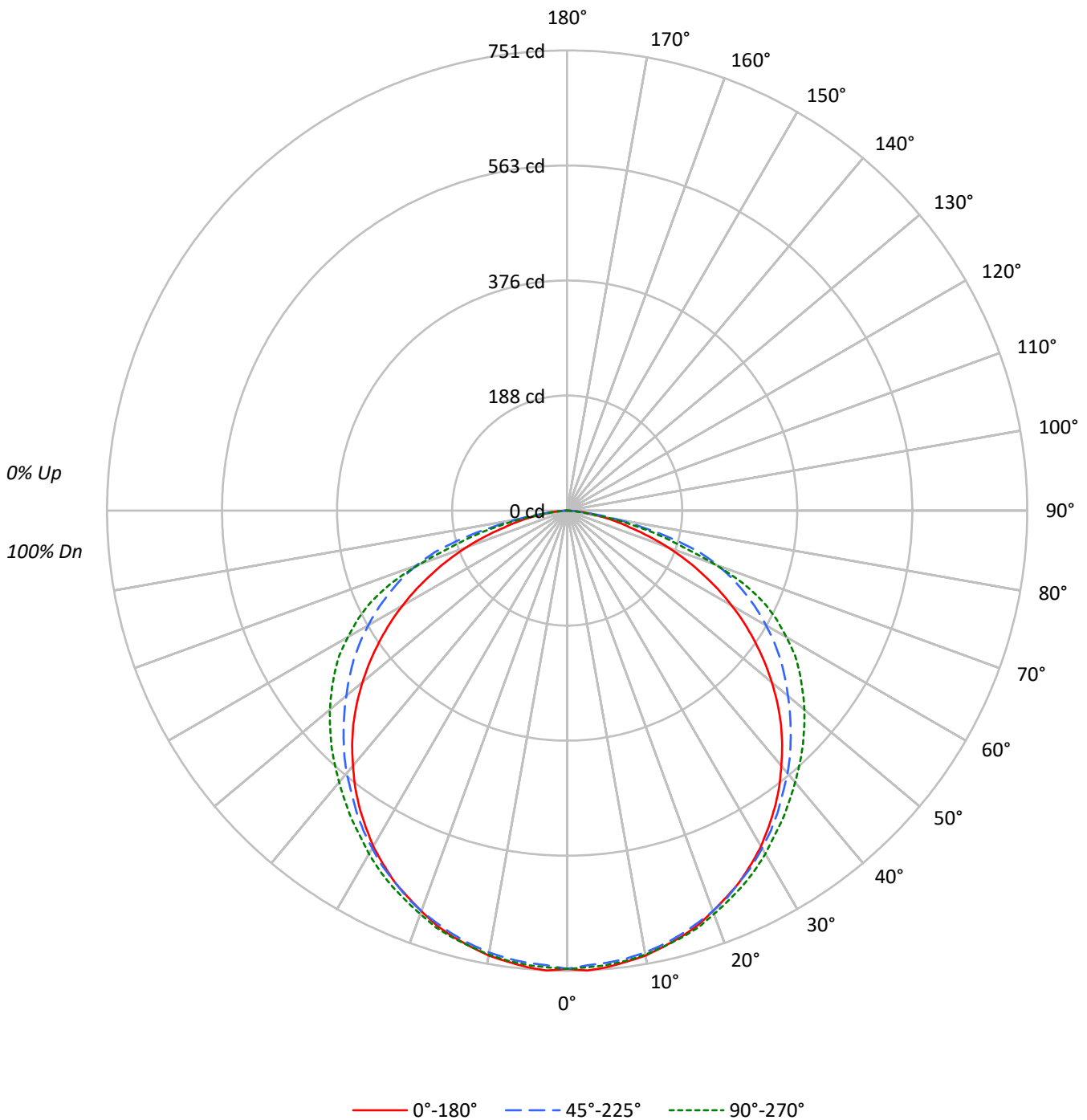
Input Watts (W): 27.714  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2013	2013	2013
5°	2020	2001	2011
10°	2015	2001	2010
15°	2006	1996	2011
20°	1992	1992	2007
25°	1983	1983	2008
30°	1966	1977	2010
35°	1941	1970	2016
40°	1911	1966	2033
45°	1878	1964	2070
50°	1824	1971	2117
55°	1758	1996	2175
60°	1670	2017	2224
65°	1543	2043	2253
70°	1371	2057	2017
75°	1105	1849	1614
80°	865	1297	1054
85°	593	377	269



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	3.2
10°-20°	203.1	9.1
20°-30°	309.3	13.8
30°-40°	376.7	16.9
40°-50°	399.6	17.9
50°-60°	377.1	16.9
60°-70°	304.5	13.6
70°-80°	165.2	7.4
80°-90°	26.7	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°	583.1	26.1
0°-40°	959.8	43.0
0°-60°	1736.6	77.8
0°-90°	2233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2233.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	748	746	741	746	744	71
15°	720	718	716	722	722	203
25°	668	666	668	675	676	307
35°	591	594	600	612	614	369
45°	493	500	516	535	544	380
55°	375	390	425	453	464	335
65°	242	272	321	347	354	240
75°	106	155	178	160	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°	747.9	747.9	747.9	747.9	747.9
2.5°	751.4	747.9	742.7	747.9	746.1
5°	747.9	746.1	740.9	746.1	744.4
7.5°	742.7	742.7	737.4	740.9	740.9
10°	737.4	735.7	732.2	737.4	735.7
12.5°	728.7	727.0	725.2	730.5	728.7
15°	720.0	718.3	716.5	721.7	721.7
17.5°	709.5	707.8	706.0	713.0	713.0
20°	695.6	695.6	695.6	702.6	700.8
22.5°	681.6	681.6	683.4	690.4	688.6
25°	667.7	666.0	667.7	674.7	676.4
27.5°	650.3	652.0	653.7	660.7	662.5
30°	632.8	634.6	636.3	645.0	646.8
32.5°	611.9	615.4	618.9	629.3	629.3
35°	591.0	594.5	599.7	611.9	613.7
37.5°	568.3	571.8	578.8	592.7	596.2
40°	543.9	549.1	559.6	573.6	578.8
42.5°	519.5	526.5	538.7	554.4	561.4
45°	493.4	500.3	516.0	535.2	543.9
47.5°	465.5	474.2	493.4	517.8	524.7
50°	435.8	448.0	470.7	496.8	505.6
52.5°	406.2	420.1	448.0	475.9	484.6
55°	374.8	390.5	425.4	453.3	463.7
57.5°	343.4	360.9	401.0	430.6	441.1
60°	310.3	331.2	374.8	404.5	413.2
62.5°	277.2	301.6	348.7	378.3	385.3
65°	242.3	272.0	320.8	346.9	353.9
67.5°	209.2	244.1	292.9	312.1	312.1
70°	174.3	212.7	261.5	266.7	256.3
72.5°	139.5	183.0	226.6	207.5	198.7
75°	106.3	155.2	177.8	160.4	155.2
77.5°	80.2	125.5	125.5	115.1	111.6
80°	55.8	95.9	83.7	73.2	68.0
82.5°	36.6	54.0	43.6	34.9	29.6
85°	19.2	20.9	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)