

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: P275819

Luminaire Tested: **14CZ2-35-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275819  
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-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2338.0 lumens  
Efficiency: N/A  
Efficacy: 81.6 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

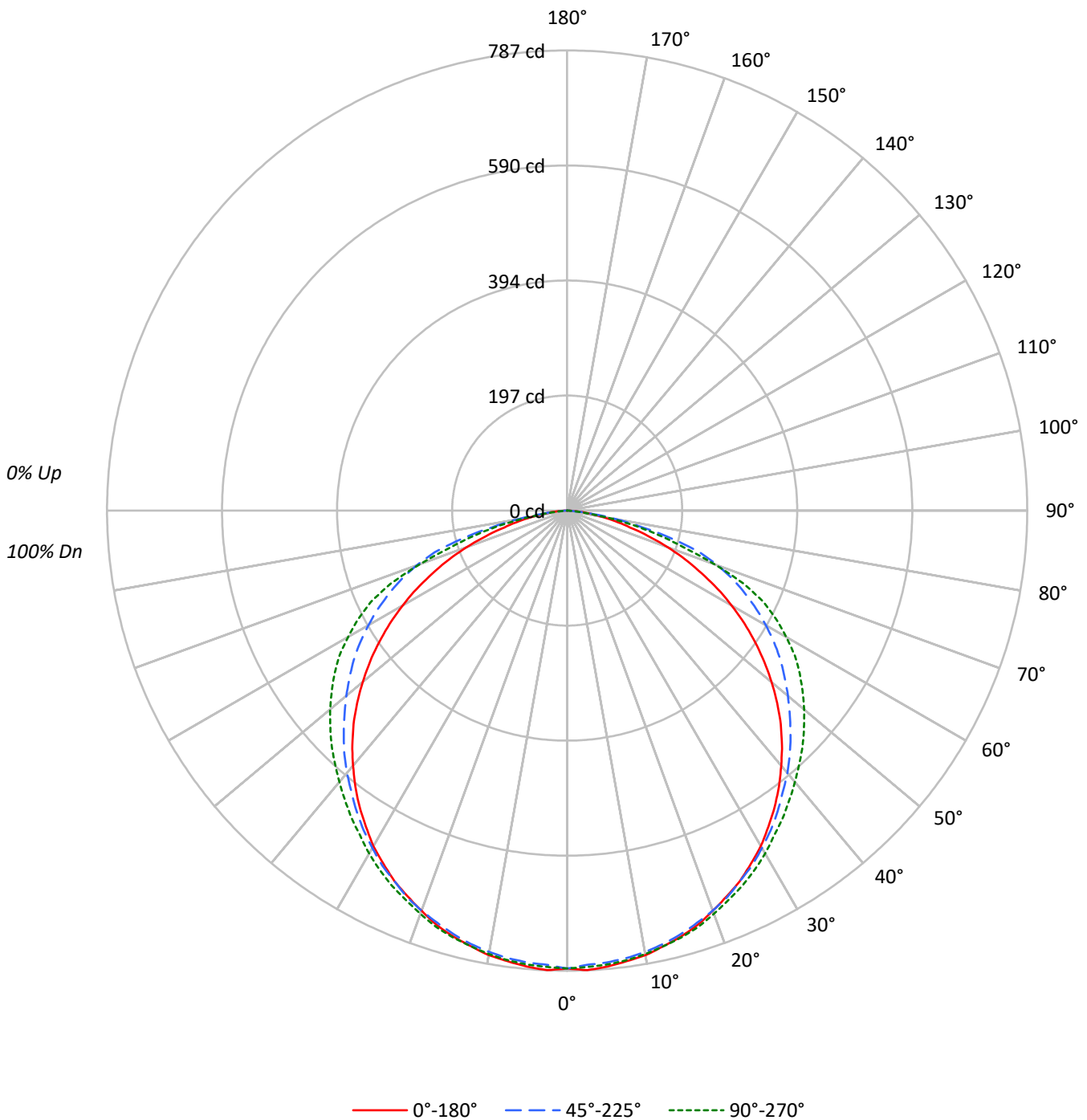
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2107	2107	2107
5°	2115	2096	2105
10°	2110	2095	2105
15°	2100	2090	2105
20°	2086	2086	2101
25°	2076	2076	2103
30°	2059	2070	2104
35°	2033	2063	2111
40°	2001	2058	2129
45°	1966	2056	2167
50°	1910	2063	2216
55°	1841	2090	2278
60°	1749	2112	2328
65°	1615	2139	2359
70°	1436	2154	2111
75°	1157	1936	1690
80°	905	1358	1103
85°	621	395	281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	3.2
10°-20°	212.6	9.1
20°-30°	323.8	13.8
30°-40°	394.4	16.9
40°-50°	418.4	17.9
50°-60°	394.9	16.9
60°-70°	318.8	13.6
70°-80°	173.0	7.4
80°-90°	28.0	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°	610.6	26.1
0°-40°	1004.9	43.0
0°-60°	1818.2	77.8
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	783	781	776	781	779	74
15°	754	752	750	756	756	213
25°	699	697	699	706	708	322
35°	619	622	628	641	642	387
45°	517	524	540	560	570	398
55°	392	409	445	475	486	351
65°	254	285	336	363	370	251
75°	111	162	186	168	162	122
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	783.1	783.1	783.1	783.1	783.1
2.5°	786.7	783.1	777.6	783.1	781.2
5°	783.1	781.2	775.8	781.2	779.4
7.5°	777.6	777.6	772.1	775.8	775.8
10°	772.1	770.3	766.6	772.1	770.3
12.5°	763.0	761.2	759.3	764.8	763.0
15°	753.9	752.0	750.2	755.7	755.7
17.5°	742.9	741.1	739.2	746.5	746.5
20°	728.3	728.3	728.3	735.6	733.8
22.5°	713.7	713.7	715.5	722.8	721.0
25°	699.1	697.3	699.1	706.4	708.2
27.5°	680.8	682.7	684.5	691.8	693.6
30°	662.6	664.4	666.2	675.4	677.2
32.5°	640.7	644.3	648.0	658.9	658.9
35°	618.8	622.4	627.9	640.7	642.5
37.5°	595.0	598.7	606.0	620.6	624.3
40°	569.5	575.0	585.9	600.5	606.0
42.5°	543.9	551.2	564.0	580.4	587.7
45°	516.6	523.9	540.3	560.4	569.5
47.5°	487.4	496.5	516.6	542.1	549.4
50°	456.3	469.1	492.8	520.2	529.3
52.5°	425.3	439.9	469.1	498.3	507.4
55°	392.4	408.9	445.4	474.6	485.5
57.5°	359.6	377.8	419.8	450.9	461.8
60°	324.9	346.8	392.4	423.5	432.6
62.5°	290.2	315.8	365.1	396.1	403.4
65°	253.7	284.7	335.9	363.2	370.5
67.5°	219.0	255.5	306.7	326.7	326.7
70°	182.5	222.7	273.8	279.3	268.3
72.5°	146.0	191.7	237.3	217.2	208.1
75°	111.3	162.5	186.2	167.9	162.5
77.5°	84.0	131.4	131.4	120.5	116.8
80°	58.4	100.4	87.6	76.7	71.2
82.5°	38.3	56.6	45.6	36.5	31.0
85°	20.1	21.9	12.8	11.0	9.1
87.5°	7.3	3.7	1.8	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)