

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: P258935

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-4000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1411.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

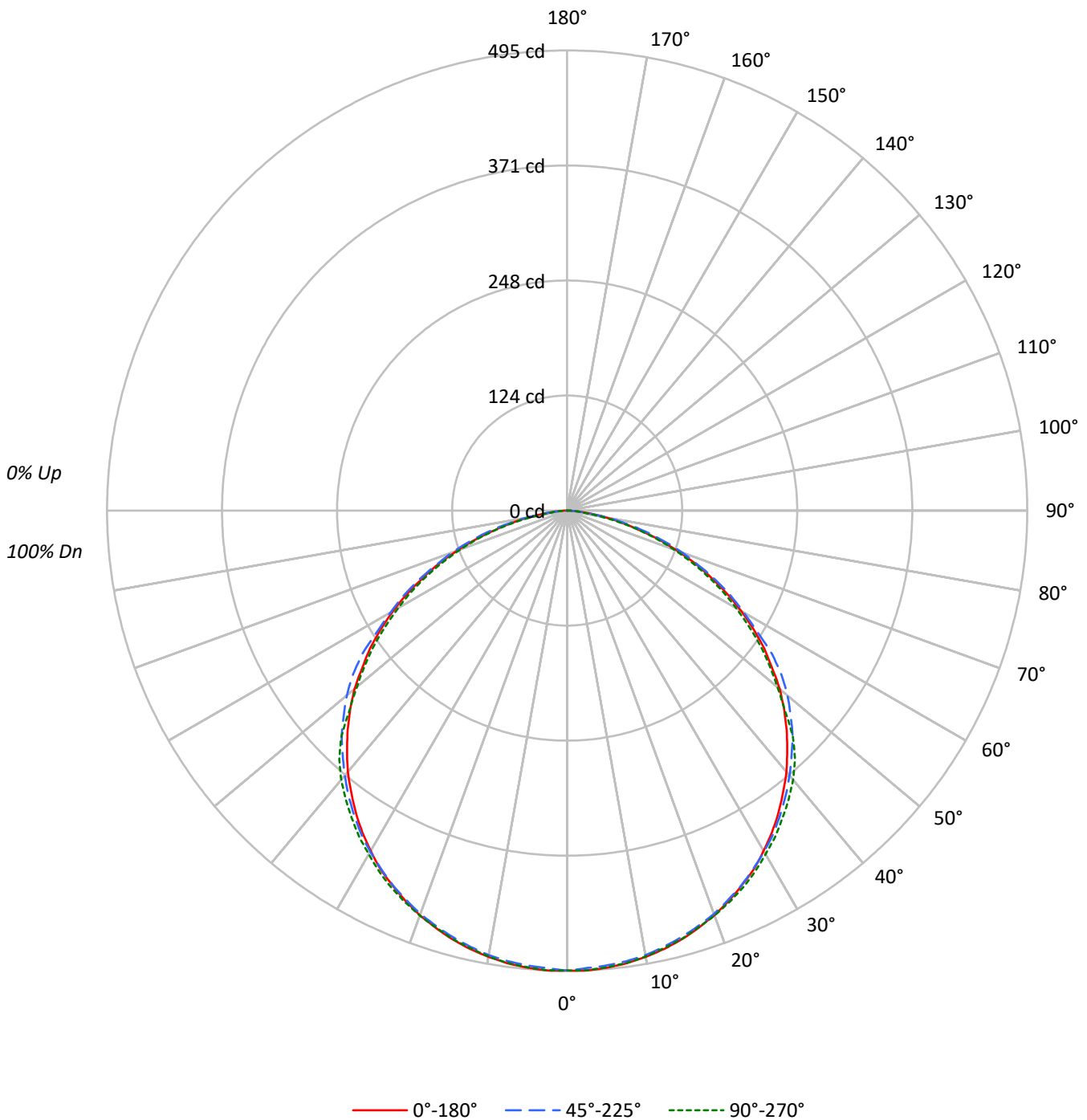
Input Watts (W): 15.531  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1331	1331	1331
5°	1333	1327	1332
10°	1332	1327	1331
15°	1330	1324	1329
20°	1326	1322	1328
25°	1320	1319	1329
30°	1313	1316	1326
35°	1302	1313	1327
40°	1289	1307	1328
45°	1271	1306	1307
50°	1250	1296	1236
55°	1215	1262	1191
60°	1163	1181	1129
65°	1089	1119	1060
70°	991	1031	959
75°	828	904	813
80°	656	691	563
85°	426	371	327



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	3.3
10°-20°	134.5	9.5
20°-30°	205.4	14.6
30°-40°	250.4	17.7
40°-50°	262.2	18.6
50°-60°	233.3	16.5
60°-70°	172.1	12.2
70°-80°	88.9	6.3
80°-90°	17.3	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°	386.8	27.4
0°-40°	637.2	45.2
0°-60°	1132.7	80.3
0°-90°	1411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	494	493	491	493	493	47
15°	477	477	475	477	477	135
25°	445	445	444	448	448	205
35°	396	397	400	404	404	248
45°	334	336	343	346	344	257
55°	259	264	269	258	254	231
65°	171	183	176	170	166	170
75°	80	88	87	80	78	86
85°	14	15	12	11	11	18
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	494.8	494.8	494.8	494.8	494.8
2.5°	495.3	494.8	492.5	494.8	494.8
5°	493.5	493.0	491.2	493.0	493.0
7.5°	491.2	490.7	488.9	490.7	490.7
10°	487.5	487.0	485.6	487.5	487.0
12.5°	482.9	482.9	480.6	482.9	482.0
15°	477.4	476.9	475.1	476.9	476.9
17.5°	470.5	470.0	468.6	470.9	470.0
20°	463.1	462.7	461.7	464.0	463.6
22.5°	454.4	454.4	453.0	455.8	455.8
25°	444.7	444.7	444.3	447.5	447.5
27.5°	435.1	434.1	434.1	437.4	437.8
30°	422.6	422.6	423.6	427.2	426.8
32.5°	410.2	410.7	412.5	415.7	416.2
35°	396.4	396.9	399.6	404.2	403.8
37.5°	381.7	383.1	386.3	391.4	391.4
40°	367.0	367.9	372.1	377.6	378.0
42.5°	350.4	352.7	357.3	363.8	362.9
45°	333.9	336.2	343.1	346.3	343.5
47.5°	316.4	319.2	326.1	326.5	317.3
50°	298.5	301.7	309.5	300.3	295.3
52.5°	277.8	283.8	290.7	277.8	274.6
55°	258.9	264.4	269.0	257.5	253.9
57.5°	237.8	245.1	241.9	236.4	231.8
60°	216.1	224.0	219.4	213.8	209.7
62.5°	194.1	202.8	198.2	192.7	189.0
65°	171.1	183.0	175.7	169.7	166.5
67.5°	149.5	161.0	152.2	147.6	144.4
70°	126.0	135.7	131.1	125.1	121.9
72.5°	103.0	110.4	109.0	102.6	100.3
75°	79.6	87.8	86.9	80.0	78.2
77.5°	59.8	67.6	64.8	59.3	57.0
80°	42.3	47.4	44.6	38.2	36.3
82.5°	25.8	29.9	25.3	21.6	19.8
85°	13.8	15.2	12.0	11.0	10.6
87.5°	5.1	5.1	5.1	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)