

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: P258932

Luminaire Tested: **14CZ-LD5-20-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258932  
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-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1297.0 lumens  
Efficiency: N/A  
Efficacy: 84.5 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

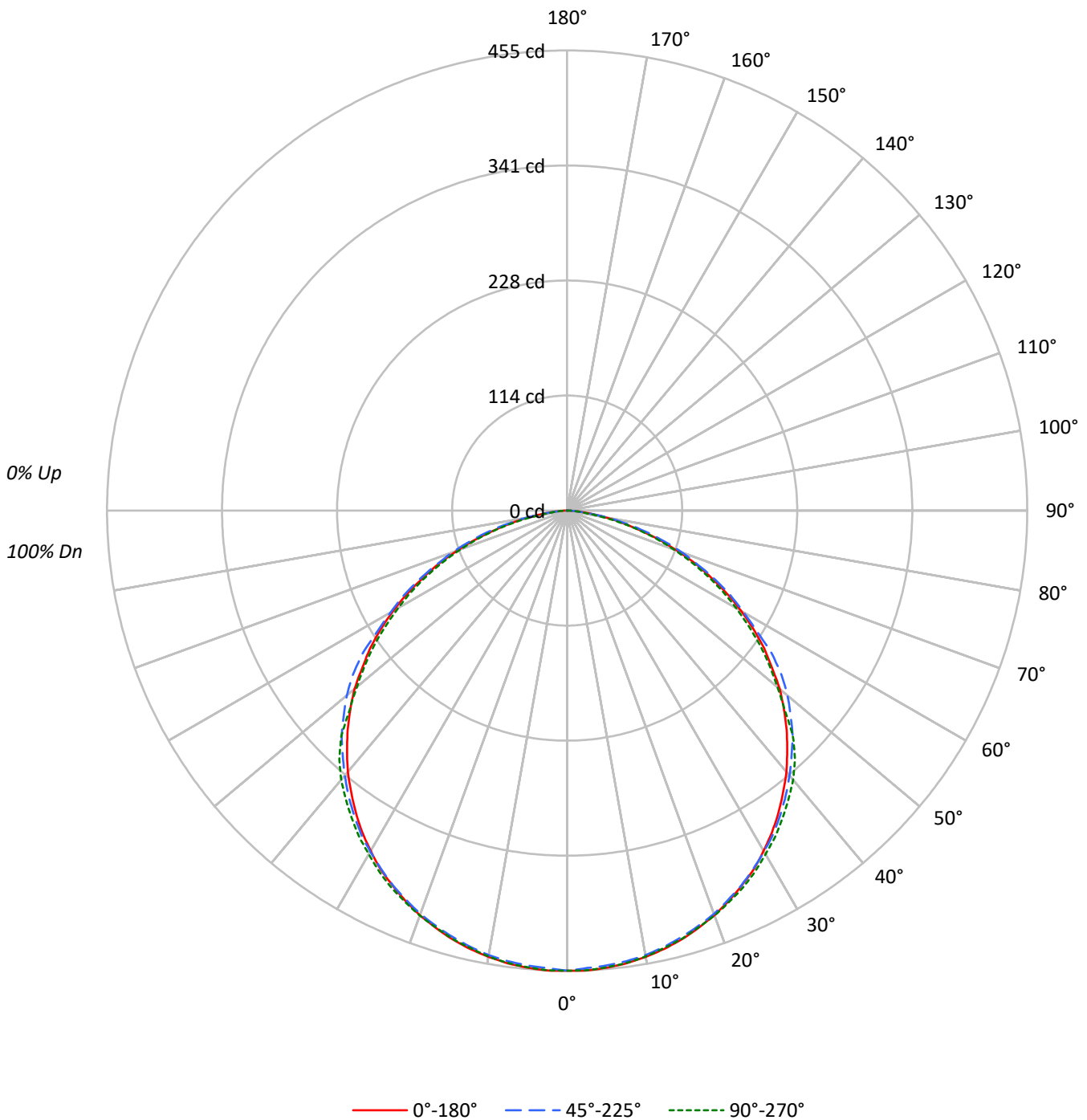
Input Watts (W): 15.345  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1224	1224	1224
5°	1225	1220	1224
10°	1224	1220	1223
15°	1222	1217	1221
20°	1219	1215	1220
25°	1214	1213	1221
30°	1207	1210	1219
35°	1197	1207	1219
40°	1185	1201	1221
45°	1168	1200	1202
50°	1149	1191	1136
55°	1117	1160	1095
60°	1069	1085	1038
65°	1002	1028	974
70°	911	948	881
75°	760	831	748
80°	603	635	518
85°	392	340	299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.1	3.3
10°-20°	123.7	9.5
20°-30°	188.8	14.6
30°-40°	230.2	17.7
40°-50°	241.0	18.6
50°-60°	214.4	16.5
60°-70°	158.2	12.2
70°-80°	81.7	6.3
80°-90°	15.9	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°	355.5	27.4
0°-40°	585.7	45.2
0°-60°	1041.2	80.3
0°-90°	1297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	454	453	452	453	453	43
15°	439	438	437	438	438	124
25°	409	409	408	411	411	189
35°	364	365	367	372	371	228
45°	307	309	315	318	316	237
55°	238	243	247	237	233	212
65°	157	168	162	156	153	156
75°	73	81	80	74	72	79
85°	13	14	11	10	10	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	454.9	454.9	454.9	454.9	454.9
2.5°	455.3	454.9	452.7	454.9	454.9
5°	453.6	453.2	451.5	453.2	453.2
7.5°	451.5	451.1	449.4	451.1	451.1
10°	448.1	447.7	446.4	448.1	447.7
12.5°	443.9	443.9	441.8	443.9	443.0
15°	438.8	438.4	436.7	438.4	438.4
17.5°	432.5	432.0	430.8	432.9	432.0
20°	425.7	425.3	424.4	426.5	426.1
22.5°	417.7	417.7	416.4	418.9	418.9
25°	408.8	408.8	408.4	411.3	411.3
27.5°	399.9	399.1	399.1	402.0	402.4
30°	388.5	388.5	389.3	392.7	392.3
32.5°	377.1	377.5	379.2	382.2	382.6
35°	364.4	364.8	367.4	371.6	371.2
37.5°	350.9	352.1	355.1	359.7	359.7
40°	337.3	338.2	342.0	347.1	347.5
42.5°	322.1	324.2	328.5	334.4	333.5
45°	306.9	309.0	315.4	318.3	315.8
47.5°	290.8	293.4	299.7	300.1	291.7
50°	274.4	277.3	284.5	276.0	271.4
52.5°	255.3	260.8	267.2	255.3	252.4
55°	238.0	243.1	247.3	236.7	233.3
57.5°	218.6	225.3	222.4	217.3	213.1
60°	198.7	205.9	201.6	196.6	192.8
62.5°	178.4	186.4	182.2	177.1	173.7
65°	157.3	168.2	161.5	156.0	153.0
67.5°	137.4	148.0	139.9	135.7	132.7
70°	115.8	124.7	120.5	115.0	112.0
72.5°	94.7	101.5	100.2	94.3	92.2
75°	73.1	80.7	79.9	73.6	71.9
77.5°	55.0	62.1	59.6	54.5	52.4
80°	38.9	43.5	41.0	35.1	33.4
82.5°	23.7	27.5	23.3	19.9	18.2
85°	12.7	14.0	11.0	10.1	9.7
87.5°	4.7	4.7	4.7	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)