

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: P275764

Luminaire Tested: **14CZ2-29-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275764  
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: 14CZ2-29-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1447.0 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

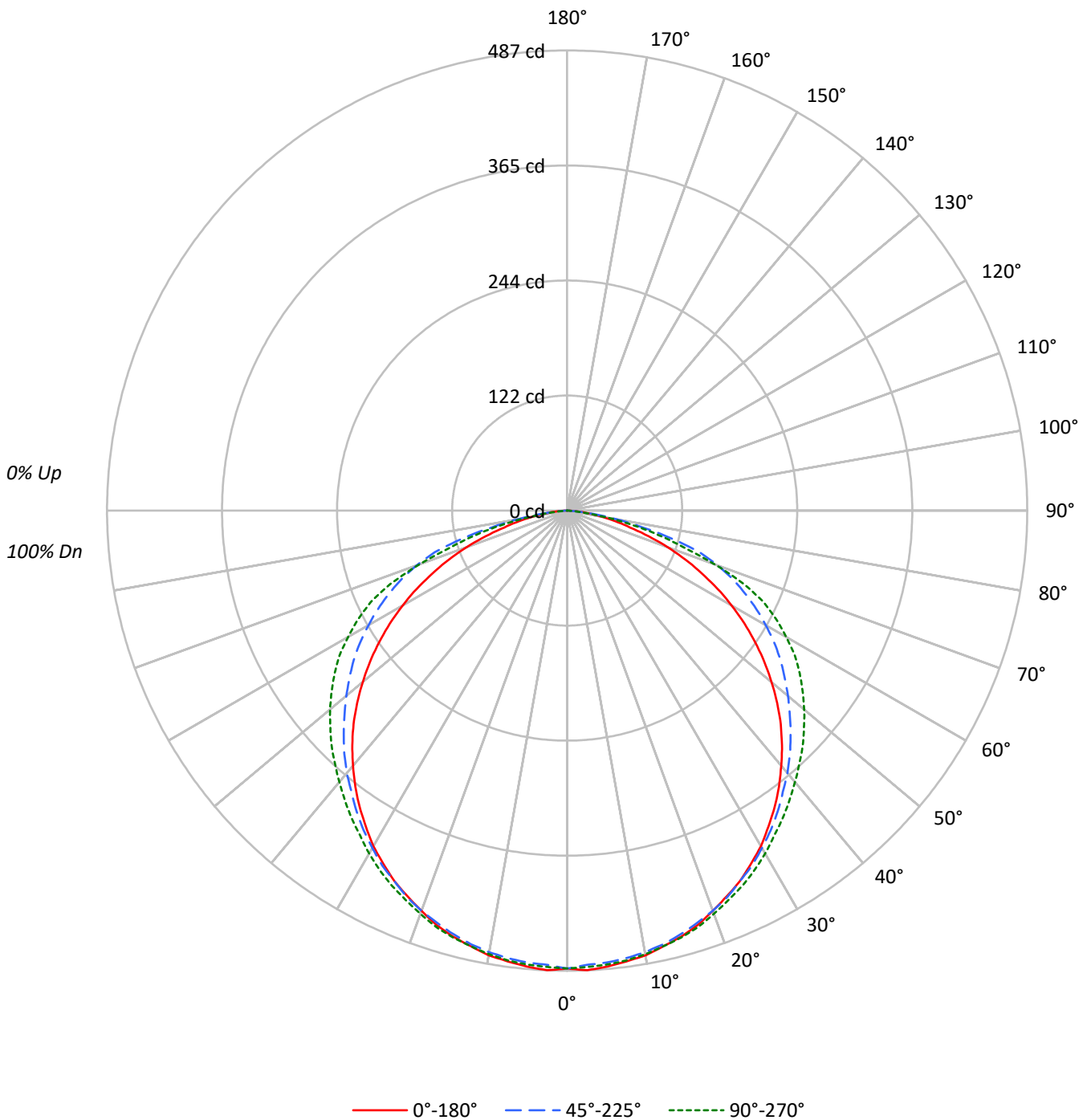
Input Watts (W): 22.599  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1304	1304	1304
5°	1309	1297	1303
10°	1306	1297	1303
15°	1300	1293	1303
20°	1291	1291	1300
25°	1285	1285	1301
30°	1274	1281	1302
35°	1258	1277	1306
40°	1238	1274	1318
45°	1217	1273	1341
50°	1182	1277	1371
55°	1140	1293	1410
60°	1082	1307	1441
65°	1000	1324	1460
70°	889	1334	1307
75°	716	1198	1045
80°	561	840	683
85°	383	244	173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	3.2
10°-20°	131.6	9.1
20°-30°	200.4	13.8
30°-40°	244.1	16.9
40°-50°	259.0	17.9
50°-60°	244.4	16.9
60°-70°	197.3	13.6
70°-80°	107.0	7.4
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°	377.9	26.1
0°-40°	622.0	43.0
0°-60°	1125.3	77.8
0°-90°	1447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	485	485	485	485	485	
5°	485	484	480	484	482	46
15°	467	465	464	468	468	132
25°	433	432	433	437	438	199
35°	383	385	389	396	398	239
45°	320	324	334	347	352	246
55°	243	253	276	294	300	217
65°	157	176	208	225	229	156
75°	69	100	115	104	100	75
85°	12	14	8	7	6	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	484.6	484.6	484.6	484.6	484.6
2.5°	486.9	484.6	481.2	484.6	483.5
5°	484.6	483.5	480.1	483.5	482.4
7.5°	481.2	481.2	477.9	480.1	480.1
10°	477.9	476.7	474.5	477.9	476.7
12.5°	472.2	471.1	470.0	473.3	472.2
15°	466.6	465.4	464.3	467.7	467.7
17.5°	459.8	458.7	457.5	462.0	462.0
20°	450.7	450.7	450.7	455.3	454.1
22.5°	441.7	441.7	442.8	447.4	446.2
25°	432.7	431.5	432.7	437.2	438.3
27.5°	421.4	422.5	423.6	428.2	429.3
30°	410.1	411.2	412.3	418.0	419.1
32.5°	396.5	398.8	401.0	407.8	407.8
35°	383.0	385.2	388.6	396.5	397.7
37.5°	368.3	370.5	375.1	384.1	386.4
40°	352.5	355.9	362.6	371.7	375.1
42.5°	336.6	341.2	349.1	359.2	363.8
45°	319.7	324.2	334.4	346.8	352.5
47.5°	301.6	307.3	319.7	335.5	340.0
50°	282.4	290.3	305.0	322.0	327.6
52.5°	263.2	272.3	290.3	308.4	314.1
55°	242.9	253.1	275.6	293.7	300.5
57.5°	222.5	233.8	259.8	279.0	285.8
60°	201.1	214.6	242.9	262.1	267.7
62.5°	179.6	195.4	225.9	245.1	249.7
65°	157.0	176.2	207.9	224.8	229.3
67.5°	135.6	158.2	189.8	202.2	202.2
70°	113.0	137.8	169.5	172.8	166.1
72.5°	90.4	118.6	146.9	134.4	128.8
75°	68.9	100.5	115.2	103.9	100.5
77.5°	52.0	81.3	81.3	74.6	72.3
80°	36.2	62.1	54.2	47.4	44.1
82.5°	23.7	35.0	28.2	22.6	19.2
85°	12.4	13.6	7.9	6.8	5.6
87.5°	4.5	2.3	1.1	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)