

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: P274703

Luminaire Tested: **14CZ2-29-RDP-UNV-L930-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P274703  
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-L930-CD1-U  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI  
Light Source: (84) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1524.0 lumens  
Efficiency: N/A  
Efficacy: 62.7 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

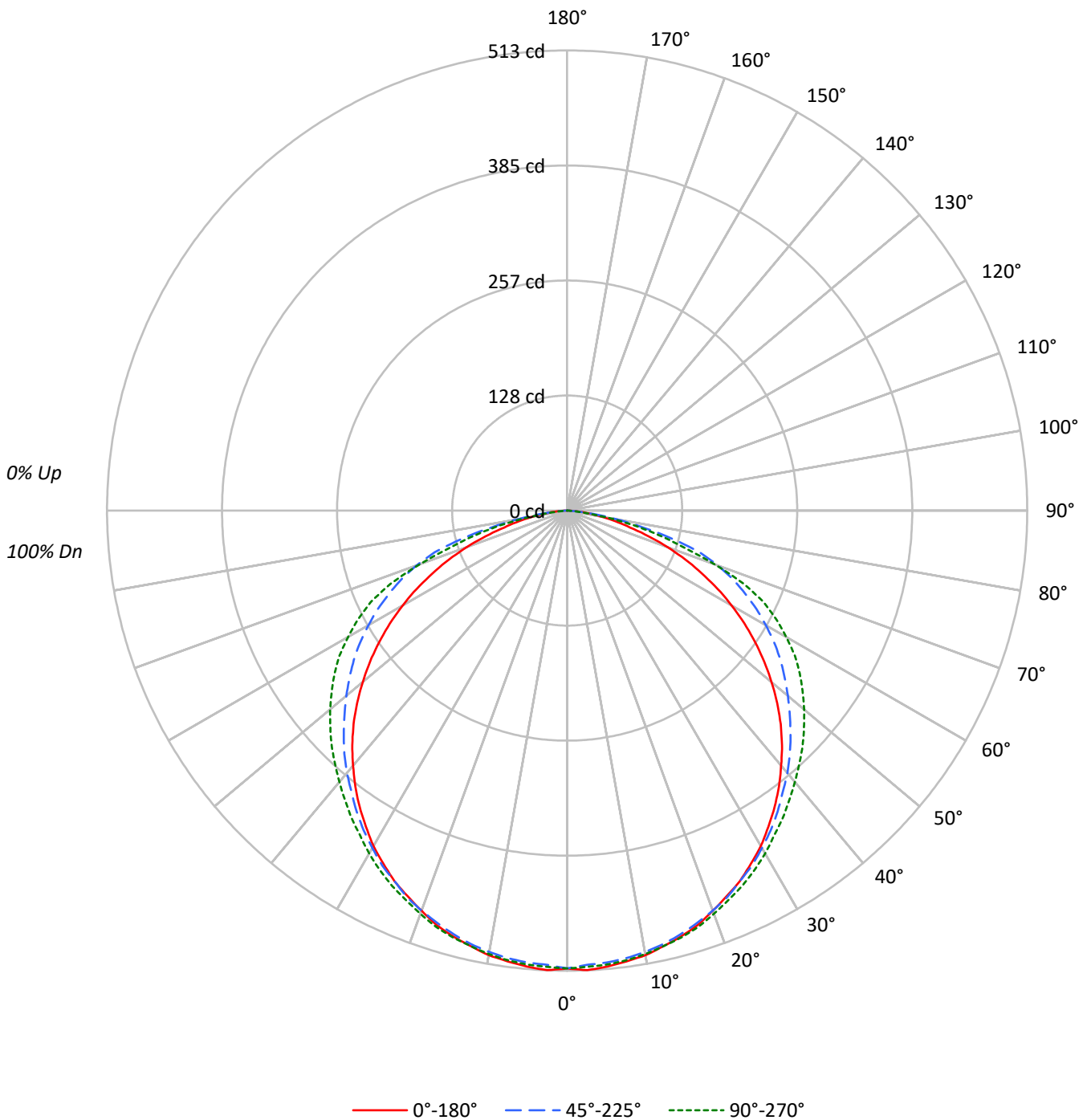
Input Watts (W): 24.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1373	1373	1373
5°	1379	1366	1372
10°	1375	1365	1372
15°	1369	1362	1372
20°	1359	1359	1370
25°	1353	1353	1371
30°	1342	1349	1372
35°	1325	1345	1376
40°	1304	1342	1388
45°	1281	1340	1413
50°	1245	1345	1444
55°	1200	1362	1485
60°	1140	1377	1518
65°	1053	1394	1538
70°	936	1404	1376
75°	755	1262	1101
80°	590	885	719
85°	404	256	182



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.3	3.2
10°-20°	138.6	9.1
20°-30°	211.1	13.8
30°-40°	257.1	16.9
40°-50°	272.7	17.9
50°-60°	257.4	16.9
60°-70°	207.8	13.6
70°-80°	112.7	7.4
80°-90°	18.2	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°	398.0	26.1
0°-40°	655.0	43.0
0°-60°	1185.2	77.8
0°-90°	1524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	510	509	506	509	508	48
15°	491	490	489	493	493	139
25°	456	454	456	460	462	210
35°	403	406	409	418	419	252
45°	337	342	352	365	371	259
55°	256	266	290	309	316	229
65°	165	186	219	237	242	164
75°	73	106	121	110	106	79
85°	13	14	8	7	6	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	510.4	510.4	510.4	510.4	510.4
2.5°	512.8	510.4	506.9	510.4	509.2
5°	510.4	509.2	505.7	509.2	508.0
7.5°	506.9	506.9	503.3	505.7	505.7
10°	503.3	502.1	499.7	503.3	502.1
12.5°	497.3	496.1	495.0	498.5	497.3
15°	491.4	490.2	489.0	492.6	492.6
17.5°	484.3	483.1	481.9	486.6	486.6
20°	474.7	474.7	474.7	479.5	478.3
22.5°	465.2	465.2	466.4	471.2	470.0
25°	455.7	454.5	455.7	460.5	461.6
27.5°	443.8	445.0	446.2	450.9	452.1
30°	431.9	433.1	434.3	440.2	441.4
32.5°	417.6	420.0	422.4	429.5	429.5
35°	403.3	405.7	409.3	417.6	418.8
37.5°	387.9	390.3	395.0	404.5	406.9
40°	371.2	374.8	381.9	391.4	395.0
42.5°	354.6	359.3	367.6	378.4	383.1
45°	336.7	341.5	352.2	365.3	371.2
47.5°	317.7	323.6	336.7	353.4	358.1
50°	297.5	305.8	321.2	339.1	345.0
52.5°	277.2	286.7	305.8	324.8	330.8
55°	255.8	266.5	290.3	309.3	316.5
57.5°	234.4	246.3	273.7	293.9	301.0
60°	211.8	226.1	255.8	276.0	282.0
62.5°	189.2	205.8	238.0	258.2	262.9
65°	165.4	185.6	218.9	236.8	241.5
67.5°	142.8	166.6	199.9	213.0	213.0
70°	119.0	145.2	178.5	182.0	174.9
72.5°	95.2	124.9	154.7	141.6	135.6
75°	72.6	105.9	121.4	109.5	105.9
77.5°	54.7	85.7	85.7	78.5	76.1
80°	38.1	65.4	57.1	50.0	46.4
82.5°	25.0	36.9	29.7	23.8	20.2
85°	13.1	14.3	8.3	7.1	5.9
87.5°	4.8	2.4	1.2	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)