

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: P274704

Luminaire Tested: **14CZ2-29-RDP-UNV-L935-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: P274704  
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-L935-CD1-U  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI  
Light Source: (84) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1562.0 lumens  
Efficiency: N/A  
Efficacy: 64.3 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

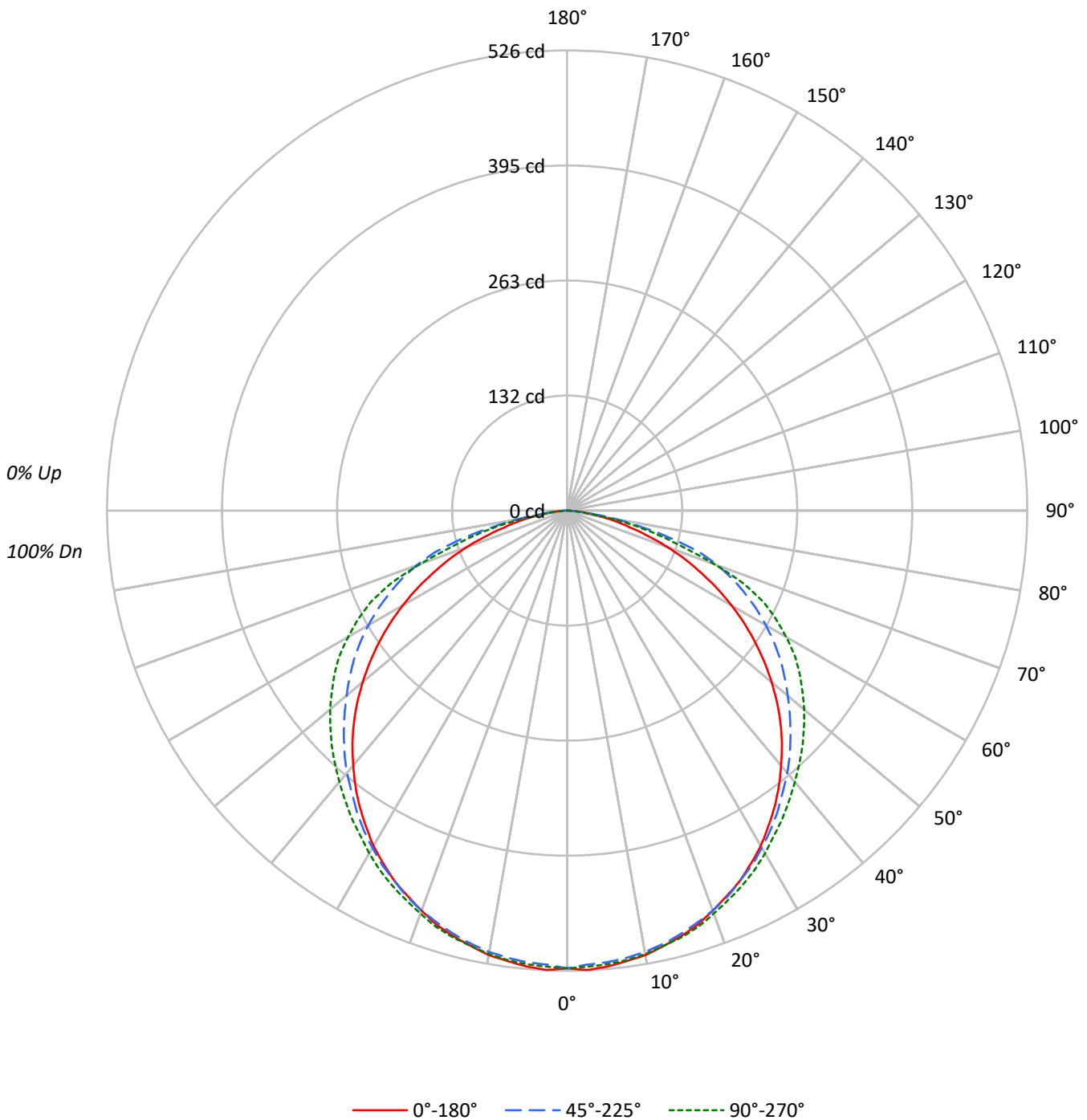
Input Watts (W): 24.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1408	1408	1408
5°	1413	1400	1407
10°	1409	1400	1406
15°	1403	1396	1407
20°	1393	1393	1404
25°	1387	1387	1405
30°	1376	1383	1406
35°	1358	1378	1410
40°	1337	1375	1422
45°	1313	1374	1448
50°	1276	1379	1480
55°	1230	1396	1522
60°	1168	1411	1555
65°	1079	1429	1577
70°	959	1439	1411
75°	774	1293	1128
80°	604	907	738
85°	414	262	188



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	3.2
10°-20°	142.1	9.1
20°-30°	216.3	13.8
30°-40°	263.5	16.9
40°-50°	279.5	17.9
50°-60°	263.8	16.9
60°-70°	213.0	13.6
70°-80°	115.5	7.4
80°-90°	18.7	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°	407.9	26.1
0°-40°	671.4	43.0
0°-60°	1214.7	77.8
0°-90°	1562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	523	522	518	522	521	50
15°	504	502	501	505	505	142
25°	467	466	467	472	473	215
35°	413	416	420	428	429	258
45°	345	350	361	374	380	266
55°	262	273	298	317	324	234
65°	170	190	224	243	248	168
75°	74	108	124	112	108	81
85°	13	15	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°	523.2	523.2	523.2	523.2	523.2
2.5°	525.6	523.2	519.5	523.2	521.9
5°	523.2	521.9	518.3	521.9	520.7
7.5°	519.5	519.5	515.8	518.3	518.3
10°	515.8	514.6	512.2	515.8	514.6
12.5°	509.7	508.5	507.3	511.0	509.7
15°	503.6	502.4	501.2	504.9	504.9
17.5°	496.3	495.1	493.9	498.8	498.8
20°	486.6	486.6	486.6	491.4	490.2
22.5°	476.8	476.8	478.0	482.9	481.7
25°	467.1	465.8	467.1	471.9	473.2
27.5°	454.9	456.1	457.3	462.2	463.4
30°	442.7	443.9	445.1	451.2	452.4
32.5°	428.0	430.5	432.9	440.2	440.2
35°	413.4	415.8	419.5	428.0	429.3
37.5°	397.5	400.0	404.9	414.6	417.1
40°	380.5	384.1	391.5	401.2	404.9
42.5°	363.4	368.3	376.8	387.8	392.7
45°	345.1	350.0	361.0	374.4	380.5
47.5°	325.6	331.7	345.1	362.2	367.1
50°	304.9	313.4	329.3	347.5	353.6
52.5°	284.1	293.9	313.4	332.9	339.0
55°	262.2	273.2	297.6	317.1	324.4
57.5°	240.2	252.4	280.5	301.2	308.5
60°	217.1	231.7	262.2	282.9	289.0
62.5°	193.9	211.0	243.9	264.6	269.5
65°	169.5	190.2	224.4	242.7	247.6
67.5°	146.3	170.7	204.9	218.3	218.3
70°	121.9	148.8	182.9	186.6	179.3
72.5°	97.6	128.0	158.5	145.1	139.0
75°	74.4	108.5	124.4	112.2	108.5
77.5°	56.1	87.8	87.8	80.5	78.0
80°	39.0	67.1	58.5	51.2	47.6
82.5°	25.6	37.8	30.5	24.4	20.7
85°	13.4	14.6	8.5	7.3	6.1
87.5°	4.9	2.4	1.2	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)