

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: P274752

Luminaire Tested: **22CZ2-32-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: P274752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-32-RDP-UNV-L935-CD1-U  
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI  
Light Source: (98) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

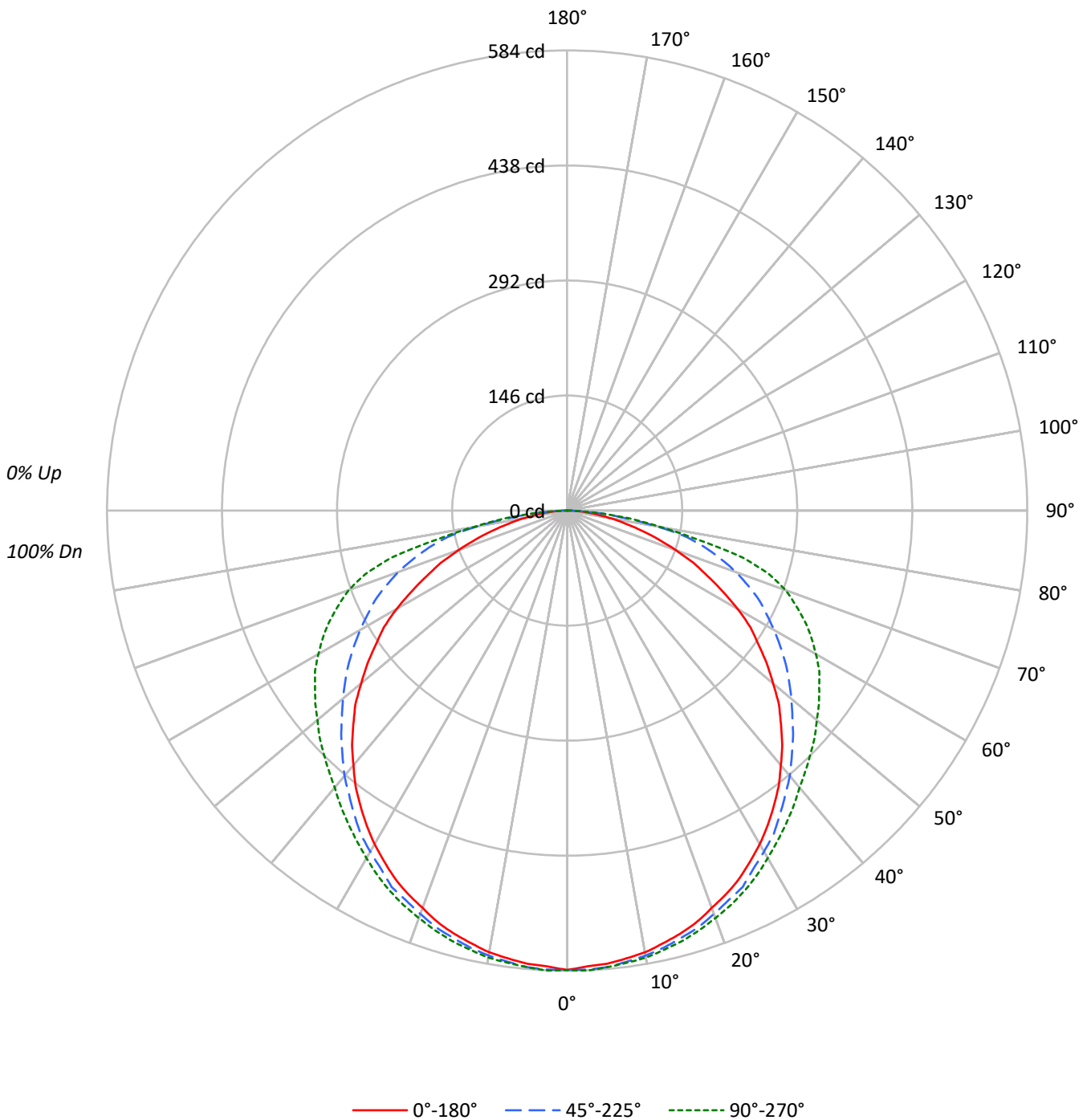
Lumens per Lamp: N/A  
Luminaire Lumens: 1856.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.7  
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	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

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

	0°	45°	90°
0°	1569	1569	1569
5°	1560	1571	1571
10°	1556	1567	1574
15°	1548	1563	1575
20°	1537	1560	1576
25°	1532	1565	1581
30°	1519	1553	1583
35°	1503	1547	1592
40°	1482	1544	1612
45°	1460	1543	1663
50°	1429	1555	1732
55°	1390	1589	1832
60°	1345	1631	1962
65°	1252	1713	2121
70°	1149	1794	2320
75°	1007	1888	2399
80°	868	1799	1883
85°	760	1306	1433



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	3.0
10°-20°	158.3	8.5
20°-30°	241.6	13.0
30°-40°	295.0	15.9
40°-50°	315.4	17.0
50°-60°	304.4	16.4
60°-70°	262.1	14.1
70°-80°	177.3	9.6
80°-90°	46.8	2.5
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°	455.1	24.5
0°-40°	750.0	40.4
0°-60°	1369.9	73.8
0°-90°	1856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	578	579	582	582	582	55
15°	556	557	561	564	565	157
25°	516	519	527	530	532	238
35°	457	462	471	481	485	286
45°	384	390	406	426	437	296
55°	296	306	339	373	390	266
65°	197	216	269	311	333	196
75°	97	128	182	218	231	104
85°	25	34	42	44	46	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	583.0	583.0	583.0	583.0	583.0
2.5°	578.9	580.3	583.0	583.0	584.4
5°	577.5	578.9	581.6	581.6	581.6
7.5°	573.4	574.8	577.5	578.9	578.9
10°	569.3	570.7	573.4	574.8	576.2
12.5°	562.5	563.9	568.0	570.7	570.7
15°	555.7	557.1	561.2	563.9	565.3
17.5°	547.5	550.2	554.3	557.1	558.4
20°	536.6	539.3	544.8	548.9	550.2
22.5°	527.0	529.8	535.2	539.3	542.0
25°	516.1	518.8	527.0	529.8	532.5
27.5°	502.4	505.2	512.0	517.5	521.6
30°	488.8	491.5	499.7	506.5	509.3
32.5°	473.8	477.9	487.4	492.9	497.0
35°	457.4	461.5	471.0	480.6	484.7
37.5°	441.0	445.1	454.7	466.9	472.4
40°	421.9	427.4	439.6	456.0	458.8
42.5°	404.1	411.0	421.9	441.0	447.8
45°	383.7	390.5	405.5	426.0	436.9
47.5°	364.5	371.4	387.8	412.3	426.0
50°	341.3	350.9	371.4	400.0	413.7
52.5°	319.5	327.7	355.0	386.4	402.8
55°	296.3	305.8	338.6	372.7	390.5
57.5°	275.8	284.0	320.9	359.1	379.6
60°	249.9	260.8	303.1	344.1	364.5
62.5°	222.6	238.9	285.4	327.7	349.5
65°	196.6	215.7	269.0	311.3	333.1
67.5°	173.4	193.9	248.5	293.5	314.0
70°	146.1	172.0	228.0	271.7	294.9
72.5°	121.5	150.2	204.8	248.5	269.0
75°	96.9	128.3	181.6	218.5	230.7
77.5°	75.1	105.1	155.6	166.6	167.9
80°	56.0	83.3	116.1	117.4	121.5
82.5°	38.2	58.7	75.1	81.9	83.3
85°	24.6	34.1	42.3	43.7	46.4
87.5°	10.9	12.3	15.0	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)