

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: P274754

Luminaire Tested: **22CZ2-32-RDP-UNV-L950-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: P274754  
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-L950-CD1-U  
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI  
Light Source: (98) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

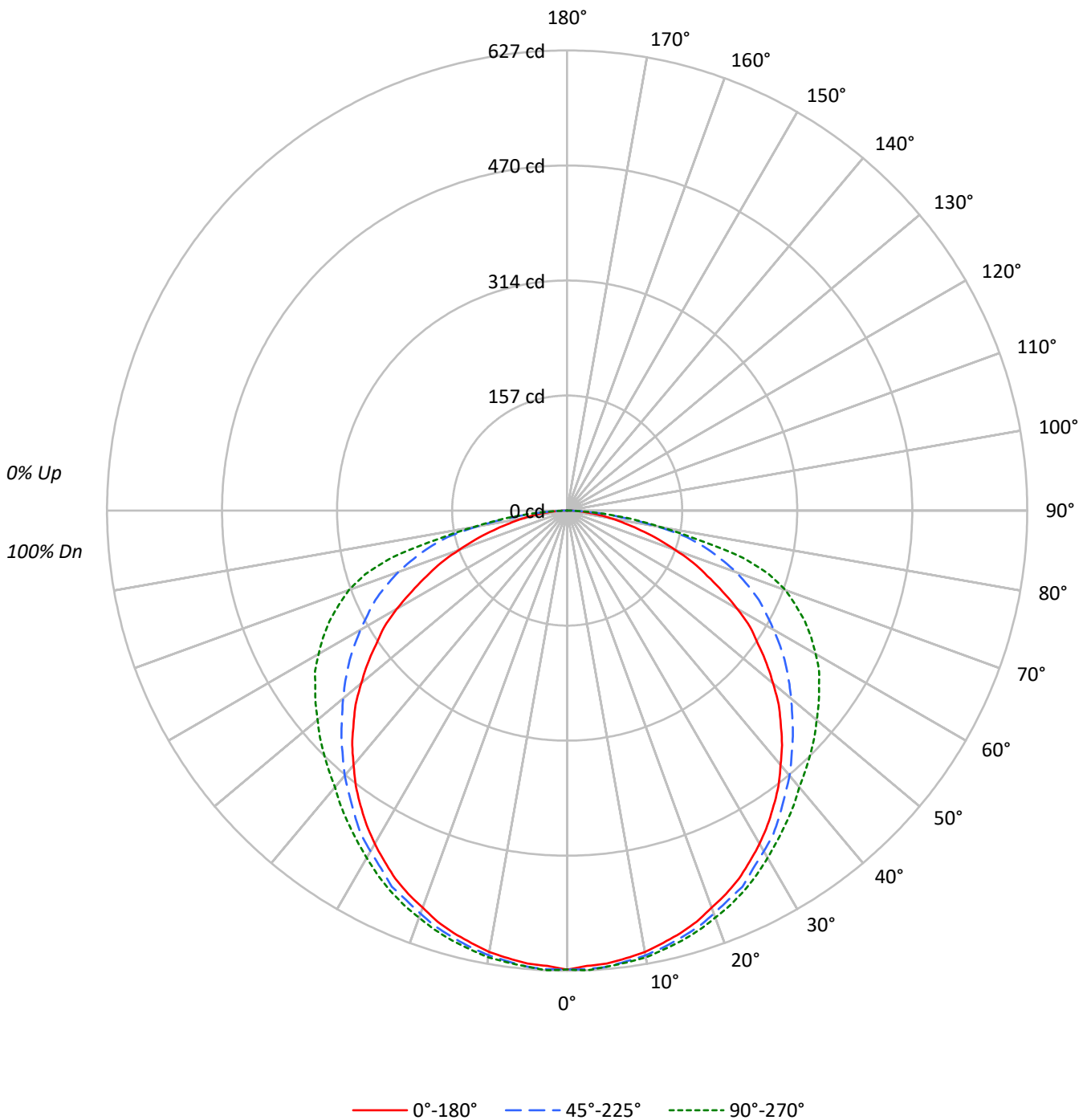
Lumens per Lamp: N/A  
Luminaire Lumens: 1991.0 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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°	1683	1683	1683
5°	1673	1685	1685
10°	1669	1681	1689
15°	1661	1677	1689
20°	1648	1674	1690
25°	1644	1679	1696
30°	1629	1666	1698
35°	1612	1660	1708
40°	1590	1657	1729
45°	1566	1655	1784
50°	1533	1668	1858
55°	1491	1704	1965
60°	1442	1750	2105
65°	1343	1837	2276
70°	1233	1924	2489
75°	1081	2025	2573
80°	931	1929	2021
85°	815	1402	1538



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	3.0
10°-20°	169.9	8.5
20°-30°	259.1	13.0
30°-40°	316.4	15.9
40°-50°	338.3	17.0
50°-60°	326.6	16.4
60°-70°	281.1	14.1
70°-80°	190.2	9.6
80°-90°	50.2	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°	488.2	24.5
0°-40°	804.6	40.4
0°-60°	1469.5	73.8
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	620	621	624	624	624	59
15°	596	598	602	605	606	168
25°	554	557	565	568	571	255
35°	491	495	505	516	520	307
45°	412	419	435	457	469	318
55°	318	328	363	400	419	285
65°	211	231	288	334	357	210
75°	104	138	195	234	248	112
85°	26	37	45	47	50	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.4	625.4	625.4	625.4	625.4
2.5°	621.0	622.5	625.4	625.4	626.9
5°	619.5	621.0	623.9	623.9	623.9
7.5°	615.2	616.6	619.5	621.0	621.0
10°	610.8	612.2	615.2	616.6	618.1
12.5°	603.4	604.9	609.3	612.2	612.2
15°	596.1	597.6	602.0	604.9	606.4
17.5°	587.3	590.3	594.7	597.6	599.0
20°	575.6	578.5	584.4	588.8	590.3
22.5°	565.4	568.3	574.1	578.5	581.5
25°	553.6	556.6	565.4	568.3	571.2
27.5°	539.0	541.9	549.2	555.1	559.5
30°	524.3	527.3	536.1	543.4	546.3
32.5°	508.2	512.6	522.9	528.7	533.1
35°	490.7	495.1	505.3	515.6	520.0
37.5°	473.1	477.5	487.7	500.9	506.8
40°	452.6	458.4	471.6	489.2	492.1
42.5°	433.5	440.9	452.6	473.1	480.4
45°	411.6	418.9	435.0	457.0	468.7
47.5°	391.1	398.4	416.0	442.3	457.0
50°	366.2	376.4	398.4	429.1	443.8
52.5°	342.7	351.5	380.8	414.5	432.1
55°	317.8	328.1	363.2	399.9	418.9
57.5°	295.9	304.6	344.2	385.2	407.2
60°	268.0	279.7	325.2	369.1	391.1
62.5°	238.7	256.3	306.1	351.5	375.0
65°	210.9	231.4	288.5	333.9	357.4
67.5°	186.0	208.0	266.6	314.9	336.9
70°	156.7	184.5	244.6	291.5	316.4
72.5°	130.4	161.1	219.7	266.6	288.5
75°	104.0	137.7	194.8	234.3	247.5
77.5°	80.6	112.8	167.0	178.7	180.2
80°	60.1	89.3	124.5	126.0	130.4
82.5°	41.0	63.0	80.6	87.9	89.3
85°	26.4	36.6	45.4	46.9	49.8
87.5°	11.7	13.2	16.1	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)