

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: P274751

Luminaire Tested: **22CZ2-32-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: P274751
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-L930-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (98) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

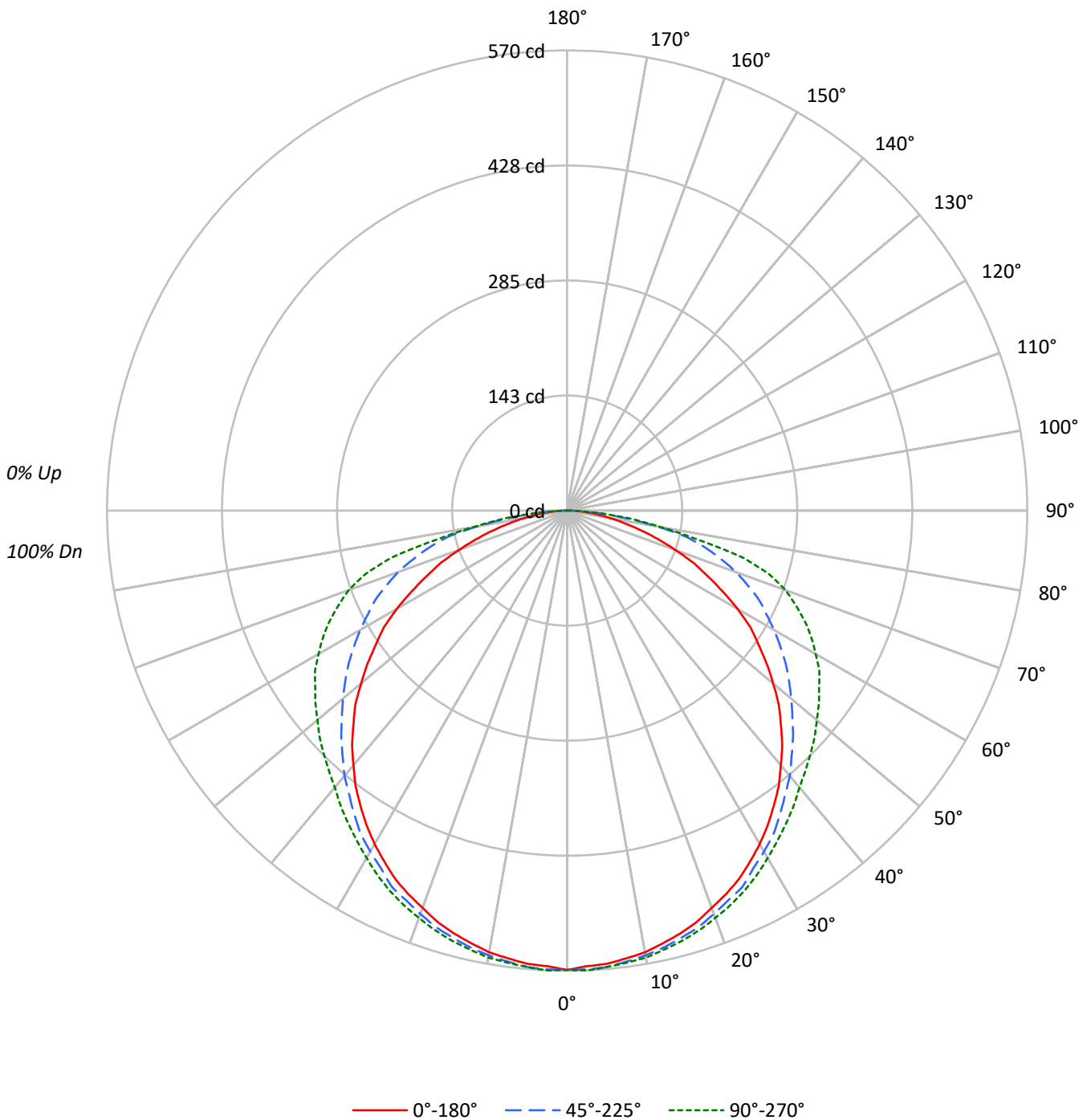
Lumens per Lamp: N/A
Luminaire Lumens: 1811.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1531	1531	1531
5°	1522	1533	1533
10°	1518	1529	1536
15°	1511	1526	1536
20°	1499	1522	1538
25°	1495	1527	1543
30°	1482	1515	1544
35°	1466	1510	1554
40°	1446	1507	1572
45°	1425	1506	1622
50°	1394	1517	1690
55°	1356	1550	1787
60°	1312	1592	1914
65°	1221	1671	2070
70°	1121	1751	2264
75°	984	1842	2340
80°	846	1754	1838
85°	741	1275	1399



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	3.0
10°-20°	154.5	8.5
20°-30°	235.7	13.0
30°-40°	287.8	15.9
40°-50°	307.8	17.0
50°-60°	297.0	16.4
60°-70°	255.7	14.1
70°-80°	173.0	9.6
80°-90°	45.7	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°	444.0	24.5
0°-40°	731.8	40.4
0°-60°	1336.6	73.8
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	564	565	568	568	568	54
15°	542	544	548	550	552	153
25°	504	506	514	517	520	232
35°	446	450	460	469	473	279
45°	374	381	396	416	426	289
55°	289	298	330	364	381	259
65°	192	210	262	304	325	191
75°	95	125	177	213	225	101
85°	24	33	41	43	45	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.9	568.9	568.9	568.9	568.9
2.5°	564.9	566.2	568.9	568.9	570.2
5°	563.5	564.9	567.5	567.5	567.5
7.5°	559.5	560.9	563.5	564.9	564.9
10°	555.5	556.9	559.5	560.9	562.2
12.5°	548.9	550.2	554.2	556.9	556.9
15°	542.2	543.6	547.6	550.2	551.5
17.5°	534.2	536.9	540.9	543.6	544.9
20°	523.6	526.2	531.6	535.6	536.9
22.5°	514.2	516.9	522.2	526.2	528.9
25°	503.6	506.3	514.2	516.9	519.6
27.5°	490.3	492.9	499.6	504.9	508.9
30°	476.9	479.6	487.6	494.3	496.9
32.5°	462.3	466.3	475.6	480.9	484.9
35°	446.3	450.3	459.6	468.9	472.9
37.5°	430.3	434.3	443.6	455.6	461.0
40°	411.7	417.0	429.0	445.0	447.6
42.5°	394.3	401.0	411.7	430.3	437.0
45°	374.4	381.0	395.7	415.7	426.3
47.5°	355.7	362.4	378.4	402.3	415.7
50°	333.1	342.4	362.4	390.3	403.7
52.5°	311.7	319.7	346.4	377.0	393.0
55°	289.1	298.4	330.4	363.7	381.0
57.5°	269.1	277.1	313.1	350.4	370.4
60°	243.8	254.5	295.8	335.7	355.7
62.5°	217.2	233.1	278.4	319.7	341.1
65°	191.8	210.5	262.5	303.8	325.1
67.5°	169.2	189.2	242.5	286.4	306.4
70°	142.5	167.9	222.5	265.1	287.8
72.5°	118.6	146.5	199.8	242.5	262.5
75°	94.6	125.2	177.2	213.2	225.1
77.5°	73.3	102.6	151.9	162.5	163.9
80°	54.6	81.3	113.2	114.6	118.6
82.5°	37.3	57.3	73.3	79.9	81.3
85°	24.0	33.3	41.3	42.6	45.3
87.5°	10.7	12.0	14.7	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)