

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: P274707

Luminaire Tested: **14CZ2-35-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: P274707
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: 14CZ2-35-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: 1877.0 lumens
Efficiency: N/A
Efficacy: 60.2 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

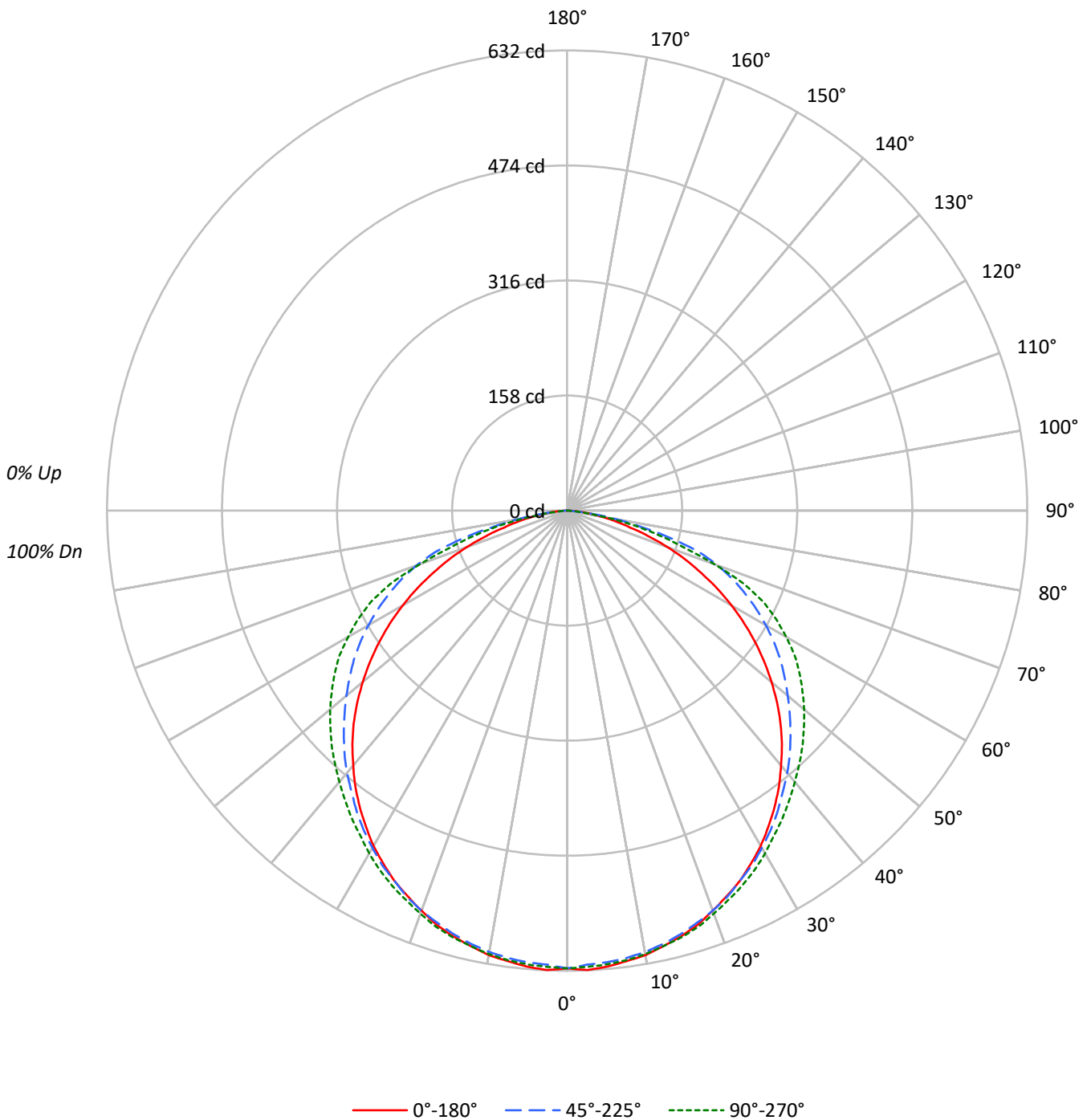
Input Watts (W): 31.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1692	1692	1692
5°	1698	1682	1690
10°	1694	1682	1690
15°	1686	1678	1690
20°	1674	1674	1687
25°	1666	1666	1688
30°	1653	1662	1689
35°	1632	1656	1694
40°	1606	1652	1709
45°	1578	1651	1740
50°	1533	1657	1779
55°	1478	1678	1829
60°	1404	1696	1869
65°	1297	1717	1894
70°	1153	1729	1695
75°	930	1554	1356
80°	727	1089	886
85°	497	318	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.5	3.2
10°-20°	170.7	9.1
20°-30°	259.9	13.8
30°-40°	316.6	16.9
40°-50°	335.9	17.9
50°-60°	317.0	16.9
60°-70°	256.0	13.6
70°-80°	138.9	7.4
80°-90°	22.5	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°	490.2	26.1
0°-40°	806.8	43.0
0°-60°	1459.7	77.8
0°-90°	1877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	629	627	623	627	626	60
15°	605	604	602	607	607	171
25°	561	560	561	567	569	258
35°	497	500	504	514	516	311
45°	415	421	434	450	457	319
55°	315	328	358	381	390	281
65°	204	229	270	292	298	202
75°	89	130	150	135	130	98
85°	16	18	10	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	628.7	628.7	628.7	628.7	628.7
2.5°	631.6	628.7	624.3	628.7	627.2
5°	628.7	627.2	622.8	627.2	625.7
7.5°	624.3	624.3	619.9	622.8	622.8
10°	619.9	618.4	615.5	619.9	618.4
12.5°	612.5	611.1	609.6	614.0	612.5
15°	605.2	603.7	602.3	606.7	606.7
17.5°	596.4	595.0	593.5	599.3	599.3
20°	584.7	584.7	584.7	590.6	589.1
22.5°	573.0	573.0	574.4	580.3	578.8
25°	561.2	559.8	561.2	567.1	568.6
27.5°	546.6	548.1	549.5	555.4	556.9
30°	531.9	533.4	534.9	542.2	543.7
32.5°	514.4	517.3	520.2	529.0	529.0
35°	496.8	499.7	504.1	514.4	515.8
37.5°	477.7	480.7	486.5	498.2	501.2
40°	457.2	461.6	470.4	482.1	486.5
42.5°	436.7	442.5	452.8	466.0	471.9
45°	414.7	420.6	433.8	449.9	457.2
47.5°	391.3	398.6	414.7	435.2	441.1
50°	366.3	376.6	395.7	417.6	425.0
52.5°	341.4	353.2	376.6	400.1	407.4
55°	315.1	328.2	357.6	381.0	389.8
57.5°	288.7	303.3	337.0	362.0	370.7
60°	260.8	278.4	315.1	340.0	347.3
62.5°	233.0	253.5	293.1	318.0	323.9
65°	203.7	228.6	269.6	291.6	297.5
67.5°	175.8	205.2	246.2	262.3	262.3
70°	146.5	178.8	219.8	224.2	215.4
72.5°	117.2	153.9	190.5	174.4	167.1
75°	89.4	130.4	149.5	134.8	130.4
77.5°	67.4	105.5	105.5	96.7	93.8
80°	46.9	80.6	70.3	61.5	57.2
82.5°	30.8	45.4	36.6	29.3	24.9
85°	16.1	17.6	10.3	8.8	7.3
87.5°	5.9	2.9	1.5	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)