

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: P274708

Luminaire Tested: **14CZ2-35-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: P274708
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-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: 1923.0 lumens
Efficiency: N/A
Efficacy: 61.6 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

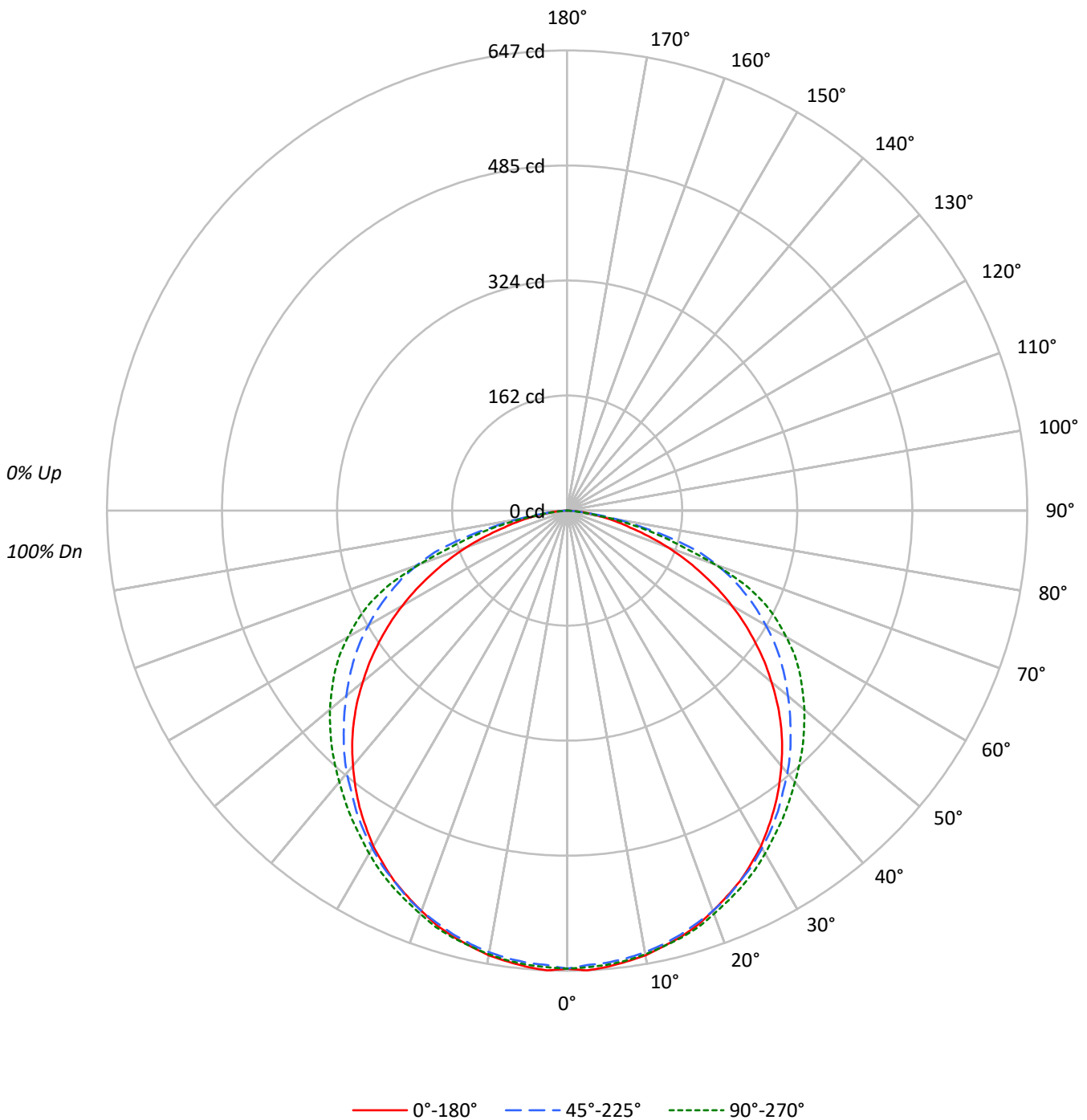
Input Watts (W): 31.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274708

CATALOG NUMBER: 14CZ2-35-RDP-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P274708

CATALOG NUMBER: 14CZ2-35-RDP-UNV-L935-CD1-U

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°	1733	1733	1733
5°	1740	1724	1732
10°	1735	1723	1731
15°	1727	1719	1731
20°	1715	1715	1728
25°	1707	1707	1730
30°	1693	1703	1731
35°	1672	1697	1736
40°	1645	1693	1751
45°	1617	1691	1783
50°	1571	1697	1823
55°	1514	1719	1873
60°	1438	1737	1915
65°	1329	1759	1941
70°	1181	1772	1736
75°	952	1592	1389
80°	744	1117	908
85°	509	324	232



TEST NUMBER: P274708

CATALOG NUMBER: 14CZ2-35-RDP-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.2
10°-20°	174.9	9.1
20°-30°	266.3	13.8
30°-40°	324.4	16.9
40°-50°	344.1	17.9
50°-60°	324.8	16.9
60°-70°	262.2	13.6
70°-80°	142.3	7.4
80°-90°	23.0	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°	502.2	26.1
0°-40°	826.5	43.0
0°-60°	1495.5	77.8
0°-90°	1923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	644	643	638	643	641	61
15°	620	618	617	622	622	175
25°	575	574	575	581	582	265
35°	509	512	516	527	528	318
45°	425	431	444	461	468	327
55°	323	336	366	390	399	288
65°	209	234	276	299	305	207
75°	92	134	153	138	134	100
85°	16	18	10	9	8	21
90°	0	0	0	0	0	



TEST NUMBER: P274708

CATALOG NUMBER: 14CZ2-35-RDP-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	644.1	644.1	644.1	644.1	644.1
2.5°	647.1	644.1	639.6	644.1	642.6
5°	644.1	642.6	638.1	642.6	641.1
7.5°	639.6	639.6	635.1	638.1	638.1
10°	635.1	633.6	630.6	635.1	633.6
12.5°	627.5	626.0	624.5	629.0	627.5
15°	620.0	618.5	617.0	621.5	621.5
17.5°	611.0	609.5	608.0	614.0	614.0
20°	599.0	599.0	599.0	605.0	603.5
22.5°	587.0	587.0	588.5	594.5	593.0
25°	575.0	573.5	575.0	581.0	582.5
27.5°	560.0	561.5	563.0	569.0	570.5
30°	545.0	546.5	548.0	555.5	557.0
32.5°	527.0	530.0	533.0	542.0	542.0
35°	508.9	511.9	516.5	527.0	528.5
37.5°	489.4	492.4	498.4	510.4	513.4
40°	468.4	472.9	481.9	493.9	498.4
42.5°	447.4	453.4	463.9	477.4	483.4
45°	424.9	430.9	444.4	460.9	468.4
47.5°	400.8	408.4	424.9	445.9	451.9
50°	375.3	385.8	405.4	427.9	435.4
52.5°	349.8	361.8	385.8	409.9	417.4
55°	322.8	336.3	366.3	390.3	399.3
57.5°	295.8	310.8	345.3	370.8	379.8
60°	267.2	285.2	322.8	348.3	355.8
62.5°	238.7	259.7	300.3	325.8	331.8
65°	208.7	234.2	276.2	298.8	304.8
67.5°	180.2	210.2	252.2	268.7	268.7
70°	150.1	183.2	225.2	229.7	220.7
72.5°	120.1	157.6	195.2	178.7	171.1
75°	91.6	133.6	153.1	138.1	133.6
77.5°	69.1	108.1	108.1	99.1	96.1
80°	48.0	82.6	72.1	63.1	58.6
82.5°	31.5	46.5	37.5	30.0	25.5
85°	16.5	18.0	10.5	9.0	7.5
87.5°	6.0	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)