

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: P271893

Luminaire Tested: **14CZ2-20-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: P271893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE, RIBBED LENS, 90CRI
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

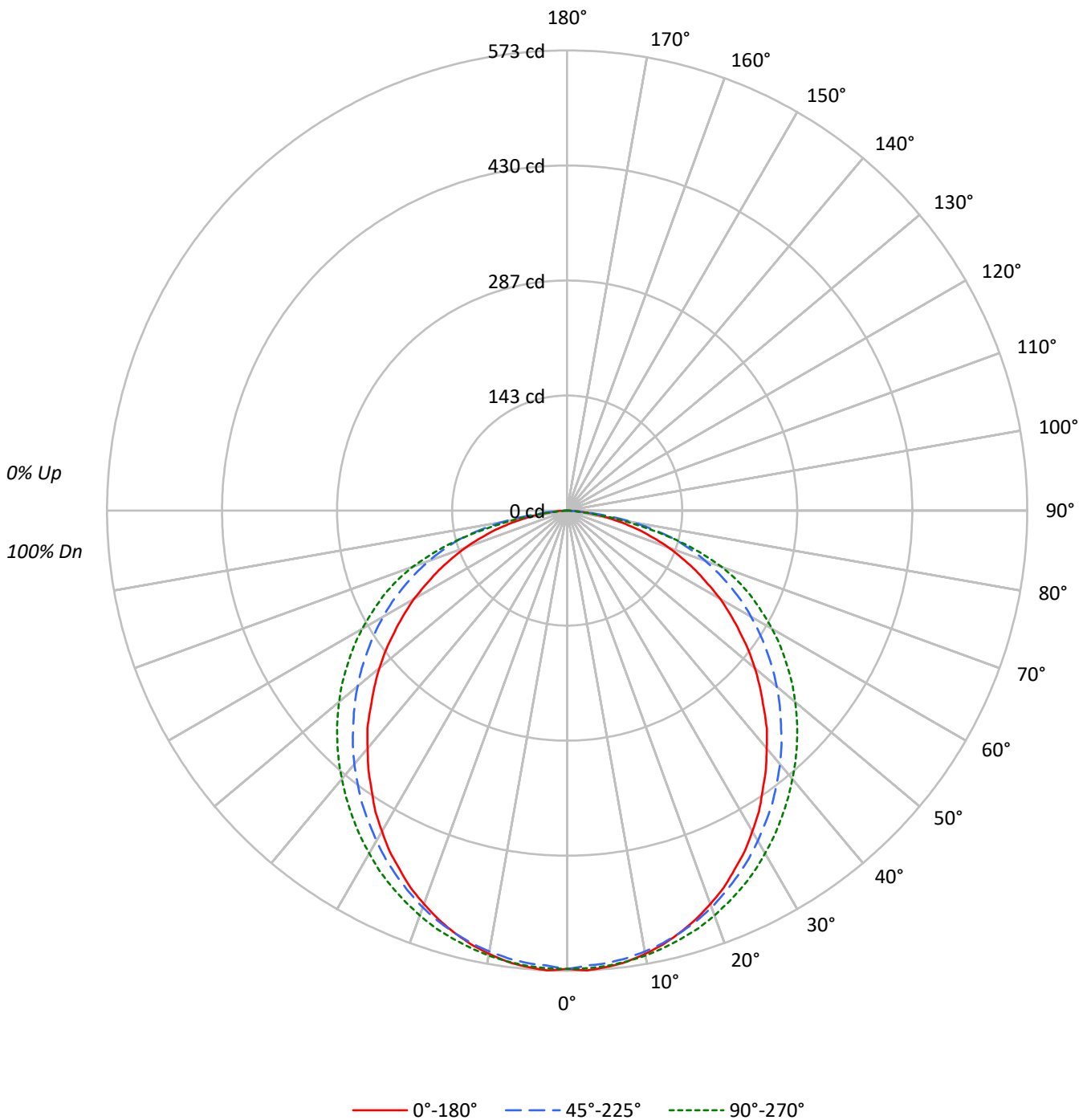
Lumens per Lamp: N/A
Luminaire Lumens: 1657.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.3
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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1536	1536	1536
5°	1541	1528	1537
10°	1532	1523	1538
15°	1515	1516	1537
20°	1493	1506	1536
25°	1465	1491	1535
30°	1433	1475	1532
35°	1395	1463	1531
40°	1358	1448	1533
45°	1316	1433	1541
50°	1278	1426	1551
55°	1229	1422	1565
60°	1185	1424	1587
65°	1124	1428	1612
70°	1055	1439	1611
75°	957	1452	1456
80°	784	1254	1037
85°	580	593	241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	3.3
10°-20°	154.3	9.3
20°-30°	232.4	14.0
30°-40°	278.9	16.8
40°-50°	290.7	17.5
50°-60°	269.1	16.2
60°-70°	217.5	13.1
70°-80°	132.6	8.0
80°-90°	27.4	1.7
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°	440.8	26.6
0°-40°	719.7	43.4
0°-60°	1279.6	77.2
0°-90°	1657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	566	570	569	54
15°	544	544	544	552	552	153
25°	493	496	502	515	517	227
35°	424	431	445	462	466	266
45°	346	356	376	398	405	267
55°	262	276	303	327	334	235
65°	177	194	224	247	253	175
75°	92	112	140	142	140	97
85°	19	28	19	11	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.8	570.8	570.8	570.8	570.8
2.5°	573.1	571.2	567.1	571.2	570.5
5°	570.5	569.0	565.7	569.7	569.0
7.5°	566.8	565.3	562.3	567.1	566.4
10°	560.5	559.8	557.5	563.1	562.7
12.5°	553.1	552.7	551.6	557.9	557.5
15°	543.9	544.2	544.2	551.6	551.6
17.5°	533.5	534.3	535.7	543.9	545.0
20°	521.3	522.8	525.8	535.0	536.5
22.5°	508.8	509.9	514.3	525.4	526.9
25°	493.3	496.2	502.1	514.7	516.9
27.5°	478.5	481.1	489.2	502.1	505.8
30°	461.1	465.2	474.8	488.8	492.9
32.5°	444.5	448.9	460.0	476.3	480.0
35°	424.5	431.2	445.2	461.5	465.9
37.5°	406.4	412.7	428.6	446.3	451.5
40°	386.5	394.2	412.3	431.2	436.4
42.5°	368.0	375.4	395.0	414.2	421.2
45°	345.8	356.2	376.5	397.6	404.9
47.5°	325.5	335.9	359.1	381.7	388.3
50°	305.2	316.3	340.7	363.9	370.6
52.5°	284.1	296.0	322.2	345.5	353.2
55°	262.0	275.6	303.0	326.6	333.6
57.5°	240.9	254.9	284.1	308.1	315.2
60°	220.2	234.6	264.5	287.5	294.8
62.5°	197.3	214.3	245.3	267.9	273.4
65°	176.6	194.0	224.3	246.8	253.1
67.5°	154.8	173.7	204.0	224.6	230.6
70°	134.1	153.7	182.9	202.1	204.7
72.5°	112.0	131.9	161.5	173.7	173.7
75°	92.0	112.3	139.7	141.9	140.0
77.5°	70.2	92.7	110.5	106.0	101.6
80°	50.6	72.8	80.9	72.8	66.9
82.5°	34.0	52.8	48.8	38.8	34.4
85°	18.8	28.1	19.2	10.7	7.8
87.5°	7.0	6.3	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)