

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: P274705

Luminaire Tested: **14CZ2-29-RDP-UNV-L940-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: P274705
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: 14CZ2-29-RDP-UNV-L940-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (84) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

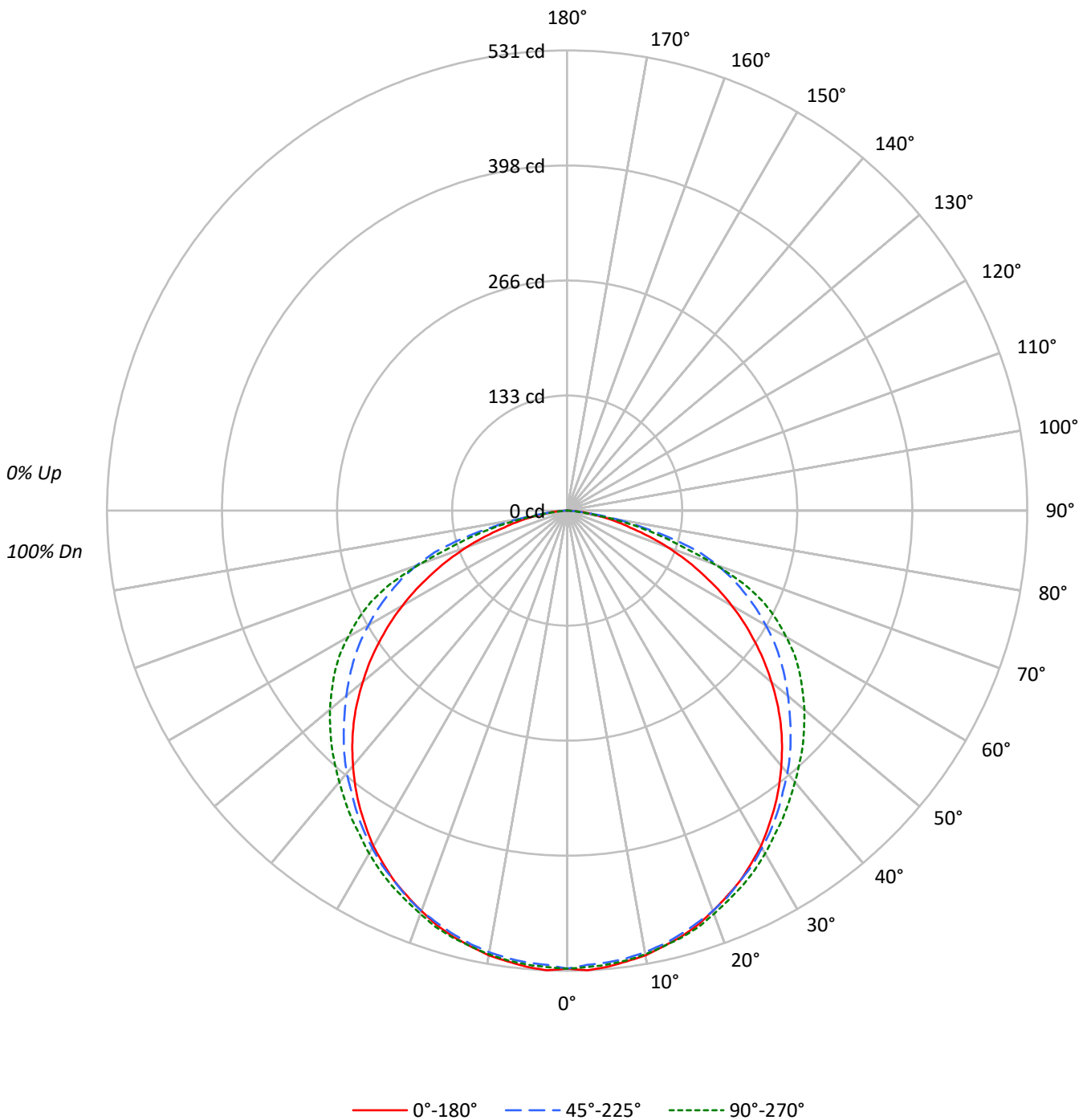
Lumens per Lamp: N/A
Luminaire Lumens: 1578.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.3
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	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°	1422	1422	1422
5°	1428	1414	1421
10°	1424	1414	1421
15°	1417	1411	1421
20°	1408	1408	1418
25°	1401	1401	1419
30°	1390	1397	1420
35°	1372	1392	1425
40°	1350	1389	1437
45°	1327	1388	1463
50°	1289	1392	1496
55°	1243	1410	1537
60°	1180	1426	1572
65°	1090	1443	1592
70°	969	1454	1425
75°	781	1307	1140
80°	611	916	744
85°	420	266	191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	3.2
10°-20°	143.5	9.1
20°-30°	218.5	13.8
30°-40°	266.2	16.9
40°-50°	282.4	17.9
50°-60°	266.5	16.9
60°-70°	215.2	13.6
70°-80°	116.7	7.4
80°-90°	18.9	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°	412.1	26.1
0°-40°	678.3	43.0
0°-60°	1227.2	77.8
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	528	527	524	527	526	50
15°	509	508	506	510	510	144
25°	472	471	472	477	478	217
35°	418	420	424	432	434	261
45°	349	354	365	378	384	268
55°	265	276	301	320	328	237
65°	171	192	227	245	250	170
75°	75	110	126	113	110	82
85°	14	15	9	7	6	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	528.5	528.5	528.5	528.5	528.5
2.5°	531.0	528.5	524.8	528.5	527.3
5°	528.5	527.3	523.6	527.3	526.0
7.5°	524.8	524.8	521.1	523.6	523.6
10°	521.1	519.9	517.4	521.1	519.9
12.5°	515.0	513.7	512.5	516.2	515.0
15°	508.8	507.6	506.3	510.0	510.0
17.5°	501.4	500.2	498.9	503.9	503.9
20°	491.6	491.6	491.6	496.5	495.2
22.5°	481.7	481.7	482.9	487.9	486.6
25°	471.8	470.6	471.8	476.8	478.0
27.5°	459.5	460.8	462.0	466.9	468.1
30°	447.2	448.4	449.7	455.8	457.1
32.5°	432.4	434.9	437.3	444.7	444.7
35°	417.6	420.1	423.8	432.4	433.7
37.5°	401.6	404.1	409.0	418.9	421.3
40°	384.4	388.1	395.5	405.3	409.0
42.5°	367.1	372.1	380.7	391.8	396.7
45°	348.6	353.6	364.7	378.2	384.4
47.5°	328.9	335.1	348.6	365.9	370.8
50°	308.0	316.6	332.6	351.1	357.3
52.5°	287.0	296.9	316.6	336.3	342.5
55°	264.9	276.0	300.6	320.3	327.7
57.5°	242.7	255.0	283.4	304.3	311.7
60°	219.3	234.1	264.9	285.8	292.0
62.5°	195.9	213.1	246.4	267.3	272.3
65°	171.2	192.2	226.7	245.2	250.1
67.5°	147.8	172.5	207.0	220.5	220.5
70°	123.2	150.3	184.8	188.5	181.1
72.5°	98.6	129.4	160.2	146.6	140.4
75°	75.1	109.6	125.7	113.3	109.6
77.5°	56.7	88.7	88.7	81.3	78.8
80°	39.4	67.8	59.1	51.7	48.0
82.5°	25.9	38.2	30.8	24.6	20.9
85°	13.6	14.8	8.6	7.4	6.2
87.5°	4.9	2.5	1.2	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)