

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: P271929

Luminaire Tested: **14CZ2-20-S-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: P271929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-S-UNV-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

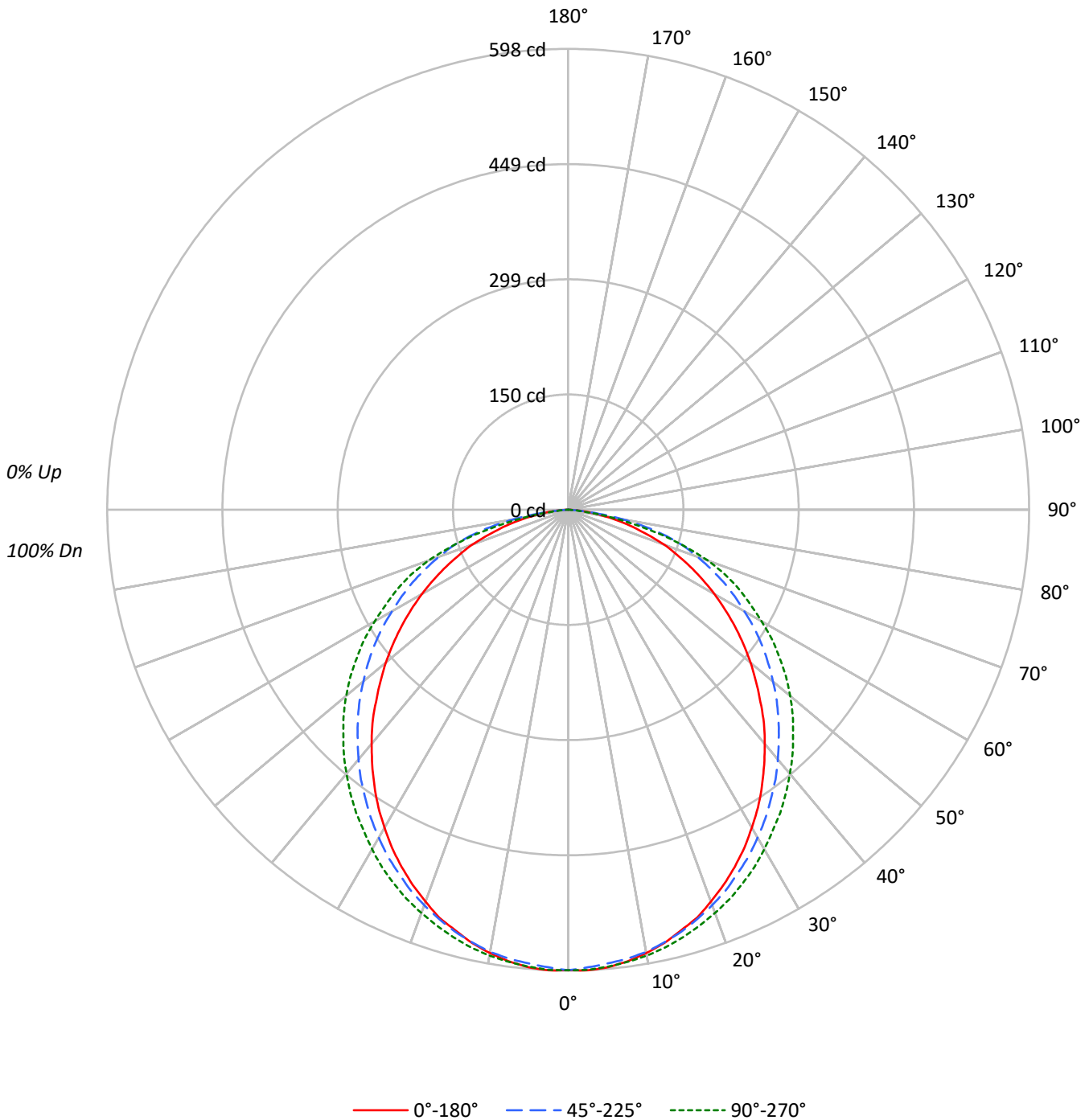
Lumens per Lamp: N/A
Luminaire Lumens: 1674.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1608	1608	1608
5°	1610	1596	1608
10°	1597	1592	1606
15°	1575	1579	1600
20°	1550	1564	1595
25°	1518	1545	1589
30°	1480	1527	1581
35°	1440	1505	1576
40°	1394	1487	1572
45°	1342	1469	1570
50°	1293	1452	1574
55°	1238	1441	1569
60°	1179	1420	1559
65°	1110	1416	1559
70°	1045	1404	1515
75°	906	1372	1294
80°	733	1106	862
85°	488	383	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	3.4
10°-20°	160.6	9.6
20°-30°	240.9	14.4
30°-40°	287.3	17.2
40°-50°	297.0	17.7
50°-60°	271.2	16.2
60°-70°	213.4	12.7
70°-80°	124.2	7.4
80°-90°	22.9	1.4
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°	457.9	27.4
0°-40°	745.2	44.5
0°-60°	1313.5	78.5
0°-90°	1674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	598	598	598	598	598	
5°	596	594	591	596	595	56
15°	565	566	567	574	574	159
25°	511	514	520	533	535	235
35°	438	444	458	476	480	274
45°	353	364	386	408	412	272
55°	264	278	307	330	334	236
65°	174	193	222	240	245	173
75°	87	108	132	130	124	93
85°	16	22	12	10	8	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	597.6	597.6	597.6	597.6	597.6
2.5°	598.4	596.8	594.3	598.4	597.6
5°	595.9	594.3	591.0	595.9	595.1
7.5°	591.0	589.3	587.6	592.6	591.8
10°	584.3	583.5	582.7	588.5	587.6
12.5°	576.0	576.0	575.2	581.8	581.8
15°	565.2	566.1	566.9	574.4	574.4
17.5°	555.3	554.4	556.9	565.2	566.1
20°	541.2	542.8	546.1	556.1	556.9
22.5°	527.0	528.7	534.5	544.5	547.0
25°	511.3	513.8	520.4	532.9	535.3
27.5°	494.7	498.0	507.1	520.4	522.9
30°	476.4	481.4	491.4	506.3	508.8
32.5°	458.2	463.1	475.6	490.5	493.8
35°	438.2	444.0	458.2	475.6	479.7
37.5°	417.5	425.0	441.6	459.0	464.0
40°	396.7	405.0	423.3	441.6	447.4
42.5°	376.0	384.3	404.2	425.0	430.8
45°	352.7	364.4	385.9	407.5	412.5
47.5°	330.3	342.8	366.9	388.4	395.1
50°	308.8	321.2	346.9	369.3	376.0
52.5°	286.3	299.6	327.0	350.3	356.1
55°	263.9	278.0	307.1	329.5	334.5
57.5°	241.5	256.5	286.3	307.9	313.7
60°	219.1	234.9	263.9	285.5	289.7
62.5°	196.7	213.3	243.2	262.3	266.4
65°	174.3	192.6	222.4	239.9	244.8
67.5°	152.7	171.0	200.0	216.6	220.8
70°	132.8	149.4	178.4	190.9	192.6
72.5°	107.9	128.6	156.9	163.5	159.4
75°	87.1	107.9	132.0	129.5	124.5
77.5°	66.4	87.1	102.9	94.6	88.0
80°	47.3	68.1	71.4	58.9	55.6
82.5°	30.7	47.3	39.8	30.7	24.9
85°	15.8	22.4	12.4	10.0	8.3
87.5°	5.0	3.3	1.7	1.7	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)