

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: P274706

Luminaire Tested: **14CZ2-29-RDP-UNV-L950-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: P274706
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-L950-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

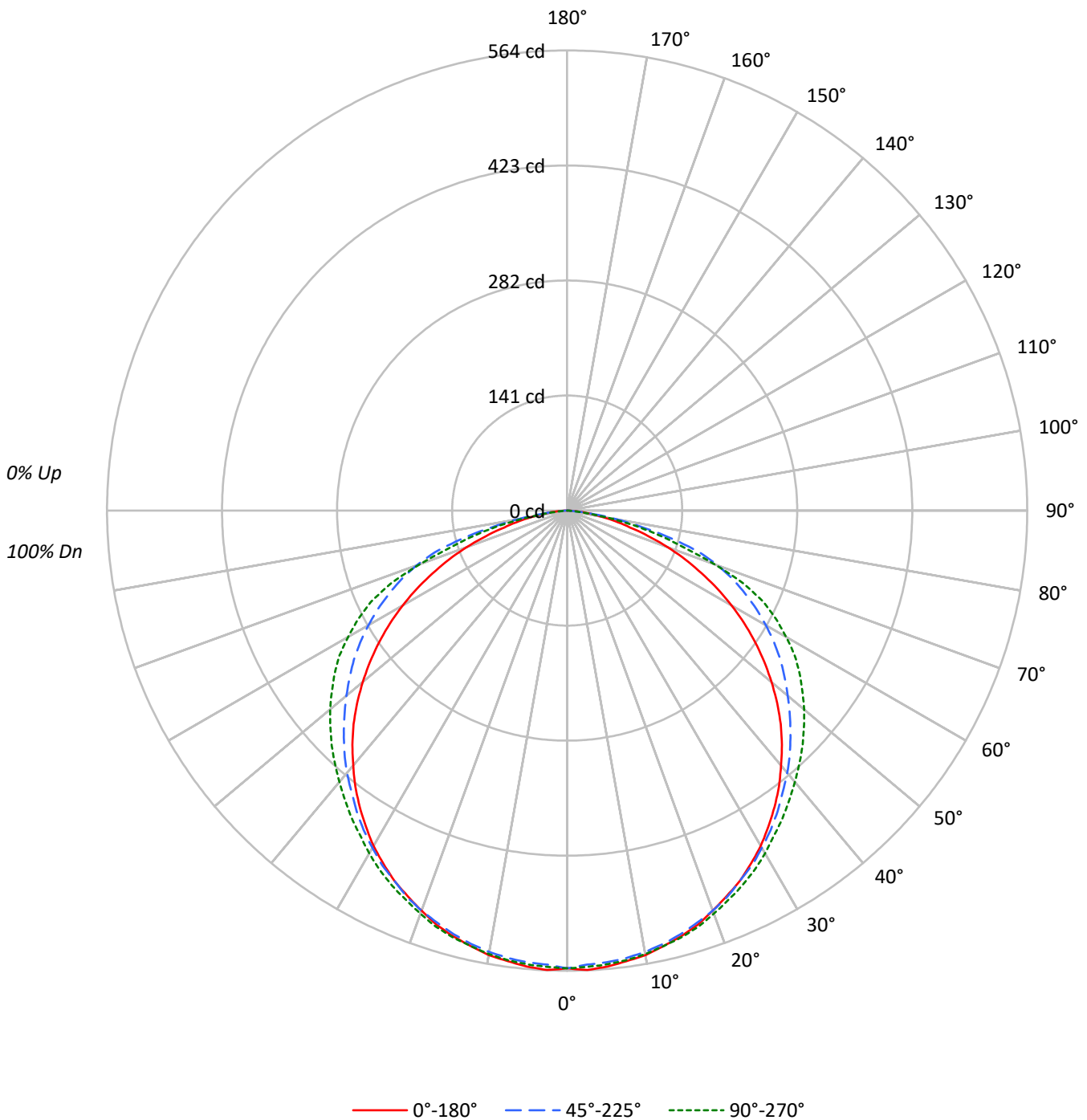
Lumens per Lamp: N/A
Luminaire Lumens: 1675.0 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	1510	1510	1510
5°	1515	1501	1508
10°	1512	1501	1508
15°	1505	1497	1508
20°	1494	1494	1505
25°	1487	1487	1507
30°	1475	1483	1508
35°	1456	1478	1512
40°	1433	1475	1525
45°	1408	1473	1553
50°	1369	1478	1587
55°	1319	1497	1632
60°	1253	1513	1668
65°	1158	1532	1691
70°	1029	1544	1512
75°	830	1387	1210
80°	648	973	790
85°	445	284	201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	3.2
10°-20°	152.3	9.1
20°-30°	232.0	13.8
30°-40°	282.5	16.9
40°-50°	299.8	17.9
50°-60°	282.9	16.9
60°-70°	228.4	13.6
70°-80°	123.9	7.4
80°-90°	20.0	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°	437.4	26.1
0°-40°	719.9	43.0
0°-60°	1302.6	77.8
0°-90°	1675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	561	561	561	561	561	
5°	561	560	556	560	558	53
15°	540	539	538	541	541	152
25°	501	500	501	506	507	231
35°	443	446	450	459	460	277
45°	370	375	387	402	408	285
55°	281	293	319	340	348	251
65°	182	204	241	260	266	180
75°	80	116	133	120	116	87
85°	14	16	9	8	6	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.0	561.0	561.0	561.0	561.0
2.5°	563.6	561.0	557.1	561.0	559.7
5°	561.0	559.7	555.8	559.7	558.4
7.5°	557.1	557.1	553.2	555.8	555.8
10°	553.2	551.8	549.2	553.2	551.8
12.5°	546.6	545.3	544.0	547.9	546.6
15°	540.1	538.8	537.5	541.4	541.4
17.5°	532.2	530.9	529.6	534.8	534.8
20°	521.8	521.8	521.8	527.0	525.7
22.5°	511.3	511.3	512.6	517.8	516.5
25°	500.8	499.5	500.8	506.1	507.4
27.5°	487.8	489.1	490.4	495.6	496.9
30°	474.7	476.0	477.3	483.8	485.2
32.5°	459.0	461.6	464.2	472.1	472.1
35°	443.3	445.9	449.8	459.0	460.3
37.5°	426.3	428.9	434.2	444.6	447.2
40°	408.0	411.9	419.8	430.2	434.2
42.5°	389.7	394.9	404.1	415.8	421.1
45°	370.1	375.3	387.1	401.5	408.0
47.5°	349.2	355.7	370.1	388.4	393.6
50°	326.9	336.1	353.1	372.7	379.2
52.5°	304.7	315.2	336.1	357.0	363.5
55°	281.2	292.9	319.1	340.0	347.8
57.5°	257.6	270.7	300.8	323.0	330.8
60°	232.8	248.5	281.2	303.4	309.9
62.5°	207.9	226.2	261.5	283.8	289.0
65°	181.8	204.0	240.6	260.2	265.5
67.5°	156.9	183.1	219.7	234.1	234.1
70°	130.8	159.5	196.2	200.1	192.2
72.5°	104.6	137.3	170.0	155.6	149.1
75°	79.8	116.4	133.4	120.3	116.4
77.5°	60.2	94.2	94.2	86.3	83.7
80°	41.8	71.9	62.8	54.9	51.0
82.5°	27.5	40.5	32.7	26.2	22.2
85°	14.4	15.7	9.2	7.8	6.5
87.5°	5.2	2.6	1.3	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)