

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: P274695

Luminaire Tested: **14CZ2-20-RDP-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: P274695
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: 14CZ2-20-RDP-UNV-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (84) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

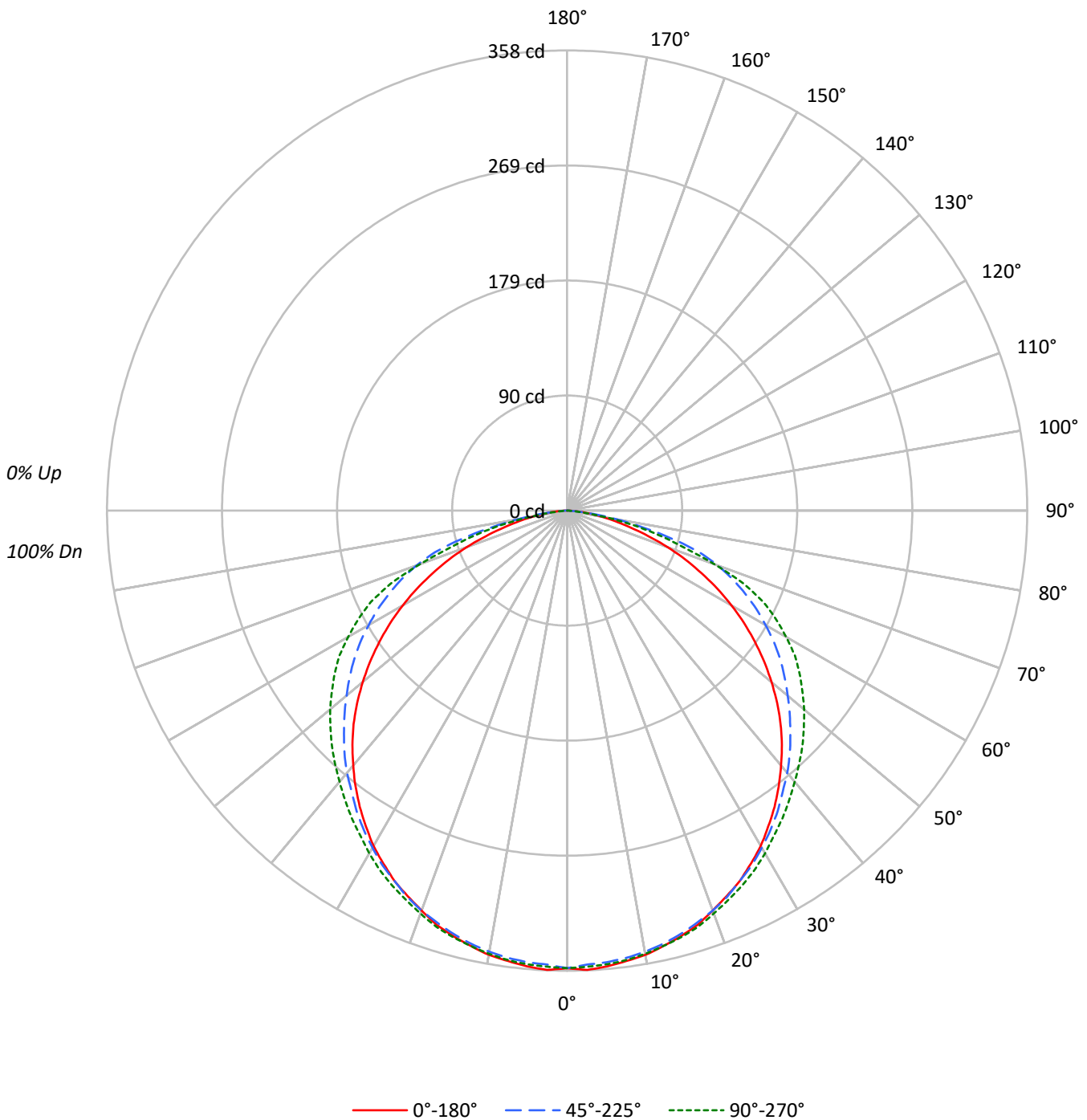
Lumens per Lamp: N/A
Luminaire Lumens: 1063.0 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P274695
CATALOG NUMBER: 14CZ2-20-RDP-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P274695

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L930-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°	958	958	958
5°	962	953	957
10°	959	953	957
15°	955	950	957
20°	948	948	955
25°	944	944	956
30°	936	941	957
35°	924	938	960
40°	909	936	968
45°	894	935	985
50°	869	938	1008
55°	837	950	1036
60°	795	960	1059
65°	735	972	1073
70°	653	980	960
75°	526	880	768
80°	412	617	502
85°	281	179	127



TEST NUMBER: P274695

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	3.2
10°-20°	96.7	9.1
20°-30°	147.2	13.8
30°-40°	179.3	16.9
40°-50°	190.2	17.9
50°-60°	179.6	16.9
60°-70°	145.0	13.6
70°-80°	78.6	7.4
80°-90°	12.7	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°	277.6	26.1
0°-40°	456.9	43.0
0°-60°	826.7	77.8
0°-90°	1063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	356	356	356	356	356	
5°	356	355	353	355	354	34
15°	343	342	341	344	344	97
25°	318	317	318	321	322	146
35°	281	283	286	291	292	176
45°	235	238	246	255	259	181
55°	178	186	202	216	221	159
65°	115	130	153	165	168	114
75°	51	74	85	76	74	55
85°	9	10	6	5	4	12
90°	0	0	0	0	0	



TEST NUMBER: P274695

CATALOG NUMBER: 14CZ2-20-RDP-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	356.0	356.0	356.0	356.0	356.0
2.5°	357.7	356.0	353.5	356.0	355.2
5°	356.0	355.2	352.7	355.2	354.4
7.5°	353.5	353.5	351.0	352.7	352.7
10°	351.0	350.2	348.6	351.0	350.2
12.5°	346.9	346.1	345.2	347.7	346.9
15°	342.7	341.9	341.1	343.6	343.6
17.5°	337.8	336.9	336.1	339.4	339.4
20°	331.1	331.1	331.1	334.4	333.6
22.5°	324.5	324.5	325.3	328.6	327.8
25°	317.9	317.0	317.9	321.2	322.0
27.5°	309.6	310.4	311.2	314.5	315.4
30°	301.3	302.1	302.9	307.1	307.9
32.5°	291.3	293.0	294.6	299.6	299.6
35°	281.3	283.0	285.5	291.3	292.1
37.5°	270.5	272.2	275.5	282.2	283.8
40°	258.9	261.4	266.4	273.0	275.5
42.5°	247.3	250.6	256.4	263.9	267.2
45°	234.9	238.2	245.6	254.8	258.9
47.5°	221.6	225.7	234.9	246.5	249.8
50°	207.5	213.3	224.1	236.5	240.7
52.5°	193.4	200.0	213.3	226.6	230.7
55°	178.4	185.9	202.5	215.8	220.8
57.5°	163.5	171.8	190.9	205.0	210.0
60°	147.7	157.7	178.4	192.5	196.7
62.5°	132.0	143.6	166.0	180.1	183.4
65°	115.4	129.5	152.7	165.1	168.5
67.5°	99.6	116.2	139.4	148.6	148.6
70°	83.0	101.2	124.5	127.0	122.0
72.5°	66.4	87.1	107.9	98.8	94.6
75°	50.6	73.9	84.6	76.4	73.9
77.5°	38.2	59.8	59.8	54.8	53.1
80°	26.6	45.6	39.8	34.9	32.4
82.5°	17.4	25.7	20.7	16.6	14.1
85°	9.1	10.0	5.8	5.0	4.1
87.5°	3.3	1.7	0.8	1.7	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)