

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: P274715

Luminaire Tested: **14CZ2-44-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: P274715
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: 14CZ2-44-RDP-UNV-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

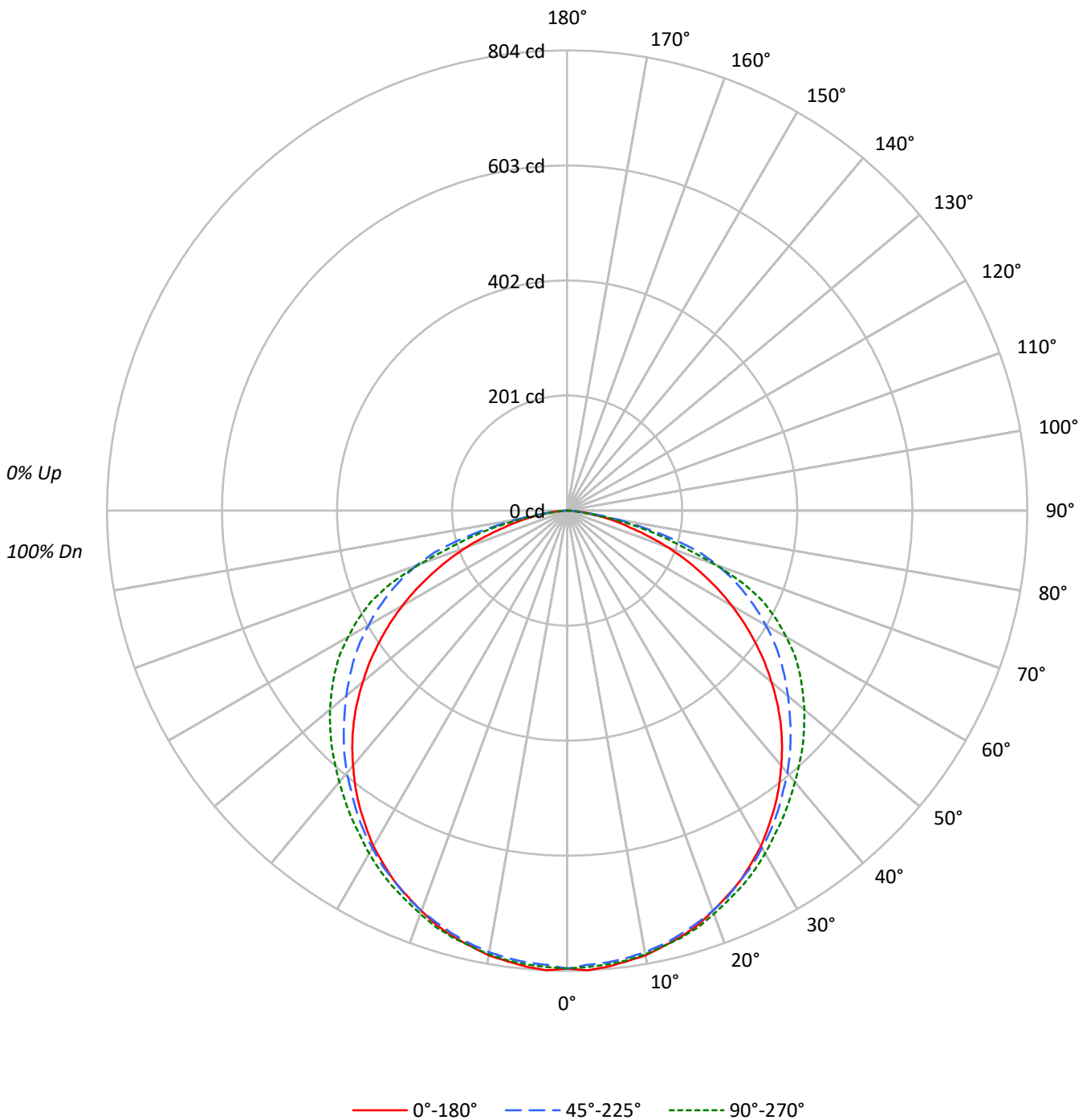
Lumens per Lamp: N/A
Luminaire Lumens: 2389.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
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°	2153	2153	2153
5°	2161	2141	2151
10°	2156	2141	2151
15°	2146	2136	2151
20°	2131	2131	2147
25°	2121	2121	2149
30°	2104	2115	2150
35°	2077	2108	2157
40°	2044	2103	2175
45°	2009	2101	2214
50°	1952	2108	2264
55°	1881	2135	2327
60°	1787	2158	2379
65°	1651	2185	2411
70°	1467	2201	2157
75°	1183	1978	1726
80°	925	1387	1127
85°	633	404	287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.2
10°-20°	217.3	9.1
20°-30°	330.9	13.8
30°-40°	403.0	16.9
40°-50°	427.5	17.9
50°-60°	403.5	16.9
60°-70°	325.8	13.6
70°-80°	176.7	7.4
80°-90°	28.6	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°	623.9	26.1
0°-40°	1026.9	43.0
0°-60°	1857.9	77.8
0°-90°	2389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	800	798	793	798	796	76
15°	770	768	767	772	772	217
25°	714	712	714	722	724	329
35°	632	636	642	655	656	395
45°	528	535	552	573	582	406
55°	401	418	455	485	496	358
65°	259	291	343	371	379	257
75°	114	166	190	172	166	124
85°	20	22	13	11	9	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	800.1	800.1	800.1	800.1	800.1
2.5°	803.9	800.1	794.5	800.1	798.3
5°	800.1	798.3	792.7	798.3	796.4
7.5°	794.5	794.5	788.9	792.7	792.7
10°	788.9	787.1	783.4	788.9	787.1
12.5°	779.6	777.8	775.9	781.5	779.6
15°	770.3	768.4	766.6	772.2	772.2
17.5°	759.1	757.2	755.4	762.8	762.8
20°	744.2	744.2	744.2	751.6	749.8
22.5°	729.3	729.3	731.1	738.6	736.7
25°	714.3	712.5	714.3	721.8	723.7
27.5°	695.7	697.6	699.4	706.9	708.7
30°	677.0	678.9	680.8	690.1	692.0
32.5°	654.7	658.4	662.1	673.3	673.3
35°	632.3	636.0	641.6	654.7	656.5
37.5°	608.0	611.8	619.2	634.1	637.9
40°	581.9	587.5	598.7	613.6	619.2
42.5°	555.8	563.3	576.3	593.1	600.6
45°	527.8	535.3	552.1	572.6	581.9
47.5°	498.0	507.3	527.8	553.9	561.4
50°	466.3	479.3	503.6	531.6	540.9
52.5°	434.6	449.5	479.3	509.2	518.5
55°	401.0	417.8	455.1	484.9	496.1
57.5°	367.4	386.1	429.0	460.7	471.9
60°	332.0	354.4	401.0	432.7	442.0
62.5°	296.6	322.7	373.0	404.7	412.2
65°	259.3	291.0	343.2	371.2	378.6
67.5°	223.8	261.1	313.3	333.9	333.9
70°	186.5	227.5	279.8	285.4	274.2
72.5°	149.2	195.8	242.5	221.9	212.6
75°	113.8	166.0	190.2	171.6	166.0
77.5°	85.8	134.3	134.3	123.1	119.4
80°	59.7	102.6	89.5	78.3	72.7
82.5°	39.2	57.8	46.6	37.3	31.7
85°	20.5	22.4	13.1	11.2	9.3
87.5°	7.5	3.7	1.9	3.7	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)