

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: P274696

Luminaire Tested: **14CZ2-20-RDP-UNV-L935-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: P274696
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-L935-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (84) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1089.0 lumens
Efficiency: N/A
Efficacy: 66.8 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

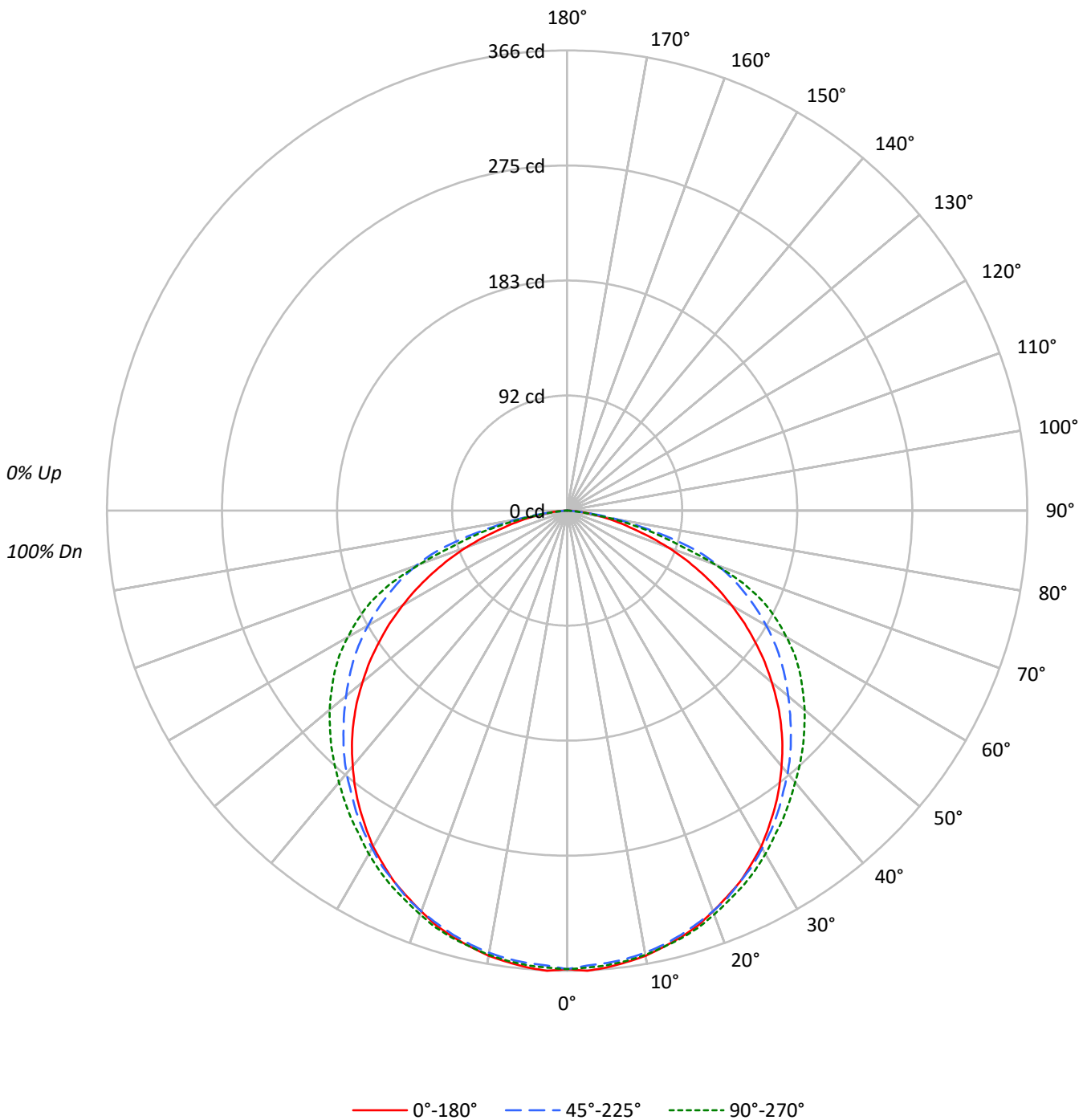
Input Watts (W): 16.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	981	981	981
5°	985	976	981
10°	983	976	980
15°	978	973	981
20°	971	971	979
25°	967	967	980
30°	959	964	980
35°	947	961	983
40°	932	959	992
45°	916	958	1010
50°	890	961	1032
55°	858	973	1061
60°	814	984	1084
65°	753	996	1099
70°	669	1003	983
75°	540	901	787
80°	422	632	514
85°	290	185	133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	3.2
10°-20°	99.0	9.1
20°-30°	150.8	13.8
30°-40°	183.7	16.9
40°-50°	194.9	17.9
50°-60°	183.9	16.9
60°-70°	148.5	13.6
70°-80°	80.6	7.4
80°-90°	13.1	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°	284.4	26.1
0°-40°	468.1	43.0
0°-60°	846.9	77.8
0°-90°	1089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	365	365	365	365	365	
5°	365	364	361	364	363	35
15°	351	350	349	352	352	99
25°	326	325	326	329	330	150
35°	288	290	292	298	299	180
45°	241	244	252	261	265	185
55°	183	190	207	221	226	163
65°	118	133	156	169	173	117
75°	52	76	87	78	76	57
85°	9	10	6	5	4	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	364.7	364.7	364.7	364.7	364.7
2.5°	366.4	364.7	362.2	364.7	363.9
5°	364.7	363.9	361.3	363.9	363.0
7.5°	362.2	362.2	359.6	361.3	361.3
10°	359.6	358.8	357.1	359.6	358.8
12.5°	355.4	354.5	353.7	356.2	355.4
15°	351.1	350.3	349.4	352.0	352.0
17.5°	346.0	345.2	344.3	347.7	347.7
20°	339.2	339.2	339.2	342.6	341.8
22.5°	332.4	332.4	333.3	336.7	335.8
25°	325.6	324.8	325.6	329.0	329.9
27.5°	317.1	318.0	318.8	322.2	323.1
30°	308.6	309.5	310.3	314.6	315.4
32.5°	298.4	300.1	301.8	306.9	306.9
35°	288.2	289.9	292.5	298.4	299.3
37.5°	277.2	278.9	282.3	289.1	290.8
40°	265.3	267.8	272.9	279.7	282.3
42.5°	253.4	256.8	262.7	270.4	273.8
45°	240.6	244.0	251.7	261.0	265.3
47.5°	227.0	231.3	240.6	252.5	255.9
50°	212.5	218.5	229.6	242.3	246.6
52.5°	198.1	204.9	218.5	232.1	236.4
55°	182.8	190.4	207.4	221.1	226.2
57.5°	167.5	176.0	195.5	210.0	215.1
60°	151.3	161.5	182.8	197.2	201.5
62.5°	135.2	147.1	170.0	184.5	187.9
65°	118.2	132.6	156.4	169.2	172.6
67.5°	102.0	119.0	142.8	152.2	152.2
70°	85.0	103.7	127.5	130.1	125.0
72.5°	68.0	89.3	110.5	101.2	96.9
75°	51.9	75.7	86.7	78.2	75.7
77.5°	39.1	61.2	61.2	56.1	54.4
80°	27.2	46.8	40.8	35.7	33.2
82.5°	17.9	26.4	21.3	17.0	14.5
85°	9.4	10.2	6.0	5.1	4.3
87.5°	3.4	1.7	0.9	1.7	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)