

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: P274726

Luminaire Tested: **14CZ2-48HE-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: P274726
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: 14CZ2-48HE-RDP-UNV-L950-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (196) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2807.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

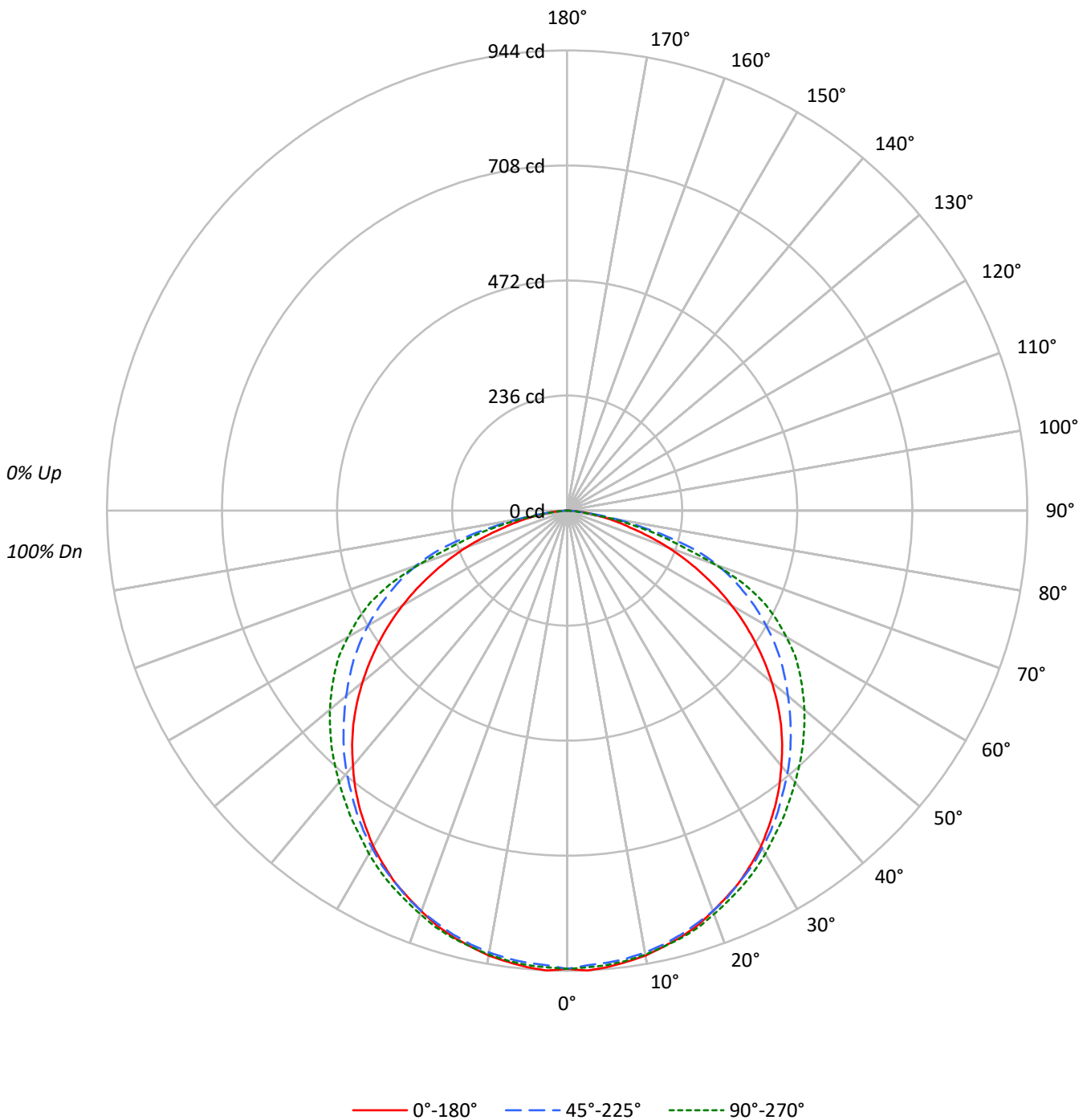
Input Watts (W): 36.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2530	2530	2530
5°	2539	2516	2528
10°	2533	2515	2527
15°	2522	2509	2528
20°	2504	2504	2523
25°	2492	2492	2525
30°	2472	2486	2526
35°	2440	2477	2534
40°	2402	2471	2556
45°	2360	2469	2602
50°	2294	2477	2660
55°	2211	2509	2735
60°	2100	2536	2795
65°	1940	2567	2833
70°	1724	2586	2534
75°	1390	2324	2027
80°	1086	1630	1325
85°	744	472	340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.2
10°-20°	255.3	9.1
20°-30°	388.7	13.8
30°-40°	473.5	16.9
40°-50°	502.3	17.9
50°-60°	474.1	16.9
60°-70°	382.8	13.6
70°-80°	207.6	7.4
80°-90°	33.6	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°	733.0	26.1
0°-40°	1206.5	43.0
0°-60°	2183.0	77.8
0°-90°	2807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	940	938	931	938	936	89
15°	905	903	901	907	907	255
25°	839	837	839	848	850	386
35°	743	747	754	769	771	464
45°	620	629	649	673	684	478
55°	471	491	535	570	583	421
65°	305	342	403	436	445	302
75°	134	195	224	202	195	146
85°	24	26	15	13	11	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.1	940.1	940.1	940.1	940.1
2.5°	944.5	940.1	933.6	940.1	937.9
5°	940.1	937.9	931.4	937.9	935.8
7.5°	933.6	933.6	927.0	931.4	931.4
10°	927.0	924.8	920.4	927.0	924.8
12.5°	916.0	913.8	911.6	918.2	916.0
15°	905.1	902.9	900.7	907.3	907.3
17.5°	891.9	889.7	887.5	896.3	896.3
20°	874.4	874.4	874.4	883.2	881.0
22.5°	856.9	856.9	859.1	867.8	865.6
25°	839.3	837.1	839.3	848.1	850.3
27.5°	817.4	819.6	821.8	830.6	832.8
30°	795.5	797.7	799.9	810.8	813.0
32.5°	769.2	773.6	778.0	791.1	791.1
35°	742.9	747.3	753.9	769.2	771.4
37.5°	714.4	718.8	727.6	745.1	749.5
40°	683.7	690.3	703.5	721.0	727.6
42.5°	653.1	661.8	677.2	696.9	705.6
45°	620.2	628.9	648.7	672.8	683.7
47.5°	585.1	596.1	620.2	650.9	659.6
50°	547.9	563.2	591.7	624.6	635.5
52.5°	510.6	528.1	563.2	598.3	609.2
55°	471.2	490.9	534.7	569.8	582.9
57.5°	431.7	453.6	504.0	541.3	554.4
60°	390.1	416.4	471.2	508.4	519.4
62.5°	348.4	379.1	438.3	475.5	484.3
65°	304.6	341.9	403.2	436.1	444.9
67.5°	263.0	306.8	368.2	392.3	392.3
70°	219.1	267.4	328.7	335.3	322.1
72.5°	175.3	230.1	284.9	260.8	249.8
75°	133.7	195.0	223.5	201.6	195.0
77.5°	100.8	157.8	157.8	144.6	140.3
80°	70.1	120.5	105.2	92.0	85.5
82.5°	46.0	67.9	54.8	43.8	37.3
85°	24.1	26.3	15.3	13.1	11.0
87.5°	8.8	4.4	2.2	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)