

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: P274724

Luminaire Tested: **14CZ2-48HE-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: P274724
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-L935-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (196) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2617.0 lumens
Efficiency: N/A
Efficacy: 70.9 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

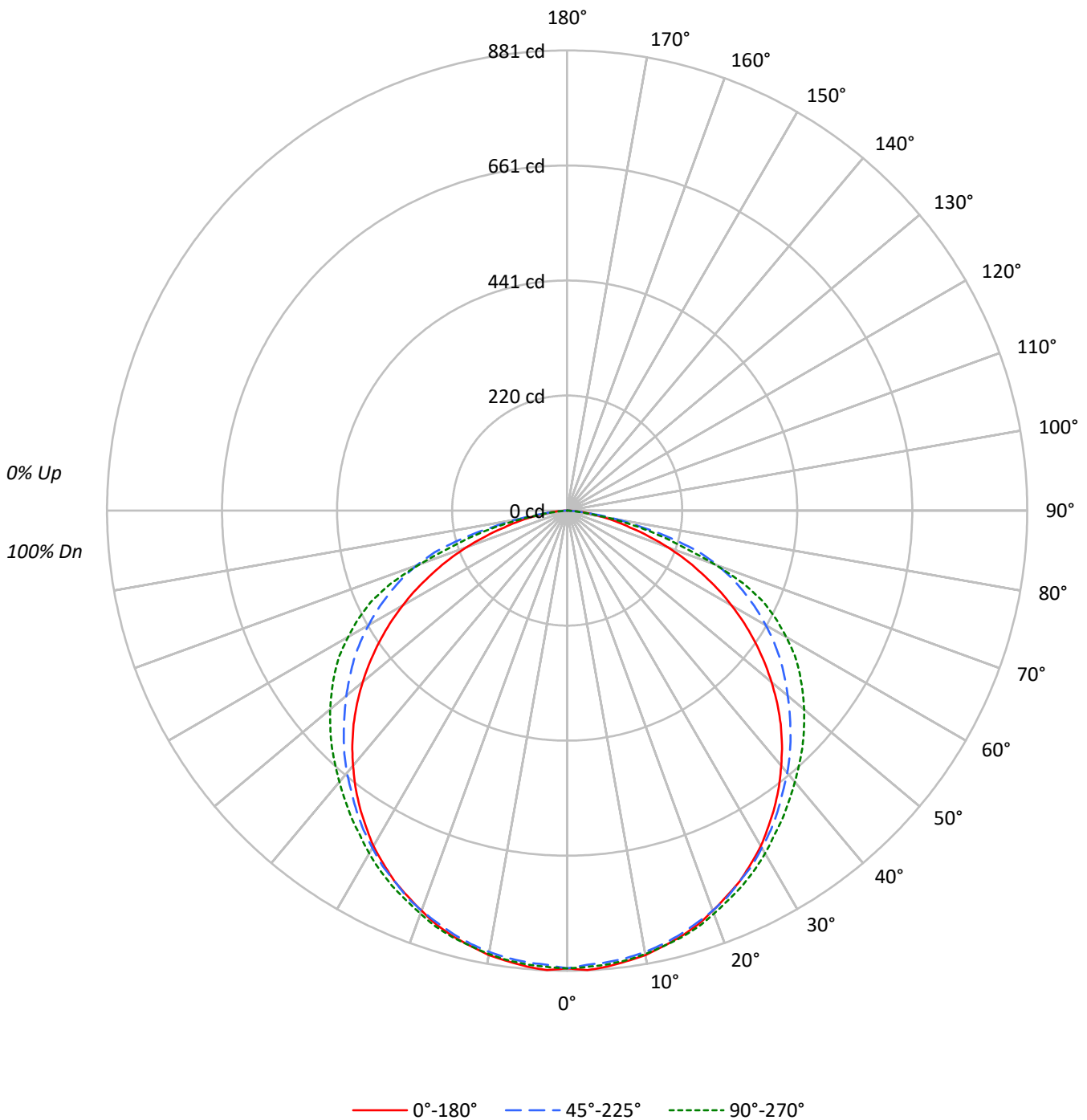
Input Watts (W): 36.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2359	2359	2359
5°	2368	2346	2357
10°	2361	2345	2356
15°	2351	2339	2357
20°	2334	2334	2352
25°	2323	2323	2354
30°	2305	2317	2355
35°	2275	2309	2363
40°	2239	2304	2383
45°	2200	2302	2426
50°	2138	2309	2480
55°	2061	2339	2550
60°	1957	2364	2606
65°	1808	2394	2641
70°	1607	2412	2363
75°	1295	2167	1890
80°	1013	1520	1235
85°	695	442	315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.2
10°-20°	238.0	9.1
20°-30°	362.4	13.8
30°-40°	441.4	16.9
40°-50°	468.3	17.9
50°-60°	442.0	16.9
60°-70°	356.9	13.6
70°-80°	193.6	7.4
80°-90°	31.3	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°	683.4	26.1
0°-40°	1124.8	43.0
0°-60°	2035.2	77.8
0°-90°	2617.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	876	874	868	874	872	83
15°	844	842	840	846	846	238
25°	782	780	782	791	793	360
35°	693	697	703	717	719	433
45°	578	586	605	627	638	445
55°	439	458	498	531	544	392
65°	284	319	376	407	415	281
75°	125	182	208	188	182	136
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.5	876.5	876.5	876.5	876.5
2.5°	880.6	876.5	870.4	876.5	874.5
5°	876.5	874.5	868.3	874.5	872.4
7.5°	870.4	870.4	864.2	868.3	868.3
10°	864.2	862.2	858.1	864.2	862.2
12.5°	854.0	852.0	849.9	856.1	854.0
15°	843.8	841.8	839.7	845.9	845.9
17.5°	831.6	829.5	827.5	835.6	835.6
20°	815.2	815.2	815.2	823.4	821.3
22.5°	798.9	798.9	800.9	809.1	807.0
25°	782.5	780.5	782.5	790.7	792.7
27.5°	762.1	764.1	766.2	774.3	776.4
30°	741.7	743.7	745.7	756.0	758.0
32.5°	717.1	721.2	725.3	737.6	737.6
35°	692.6	696.7	702.8	717.1	719.2
37.5°	666.1	670.1	678.3	694.7	698.7
40°	637.5	643.6	655.8	672.2	678.3
42.5°	608.9	617.0	631.3	649.7	657.9
45°	578.2	586.4	604.8	627.2	637.5
47.5°	545.5	555.7	578.2	606.8	615.0
50°	510.8	525.1	551.6	582.3	592.5
52.5°	476.0	492.4	525.1	557.8	568.0
55°	439.3	457.7	498.5	531.2	543.5
57.5°	402.5	422.9	469.9	504.7	516.9
60°	363.7	388.2	439.3	474.0	484.2
62.5°	324.9	353.5	408.6	443.4	451.5
65°	284.0	318.7	375.9	406.6	414.8
67.5°	245.2	286.0	343.2	365.7	365.7
70°	204.3	249.3	306.5	312.6	300.3
72.5°	163.4	214.5	265.6	243.1	232.9
75°	124.6	181.8	208.4	188.0	181.8
77.5°	94.0	147.1	147.1	134.8	130.8
80°	65.4	112.4	98.1	85.8	79.7
82.5°	42.9	63.3	51.1	40.9	34.7
85°	22.5	24.5	14.3	12.3	10.2
87.5°	8.2	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)