

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: P238729

Luminaire Tested: **14ENA-LD2-33-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ENA-LD2-33-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2398.9 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

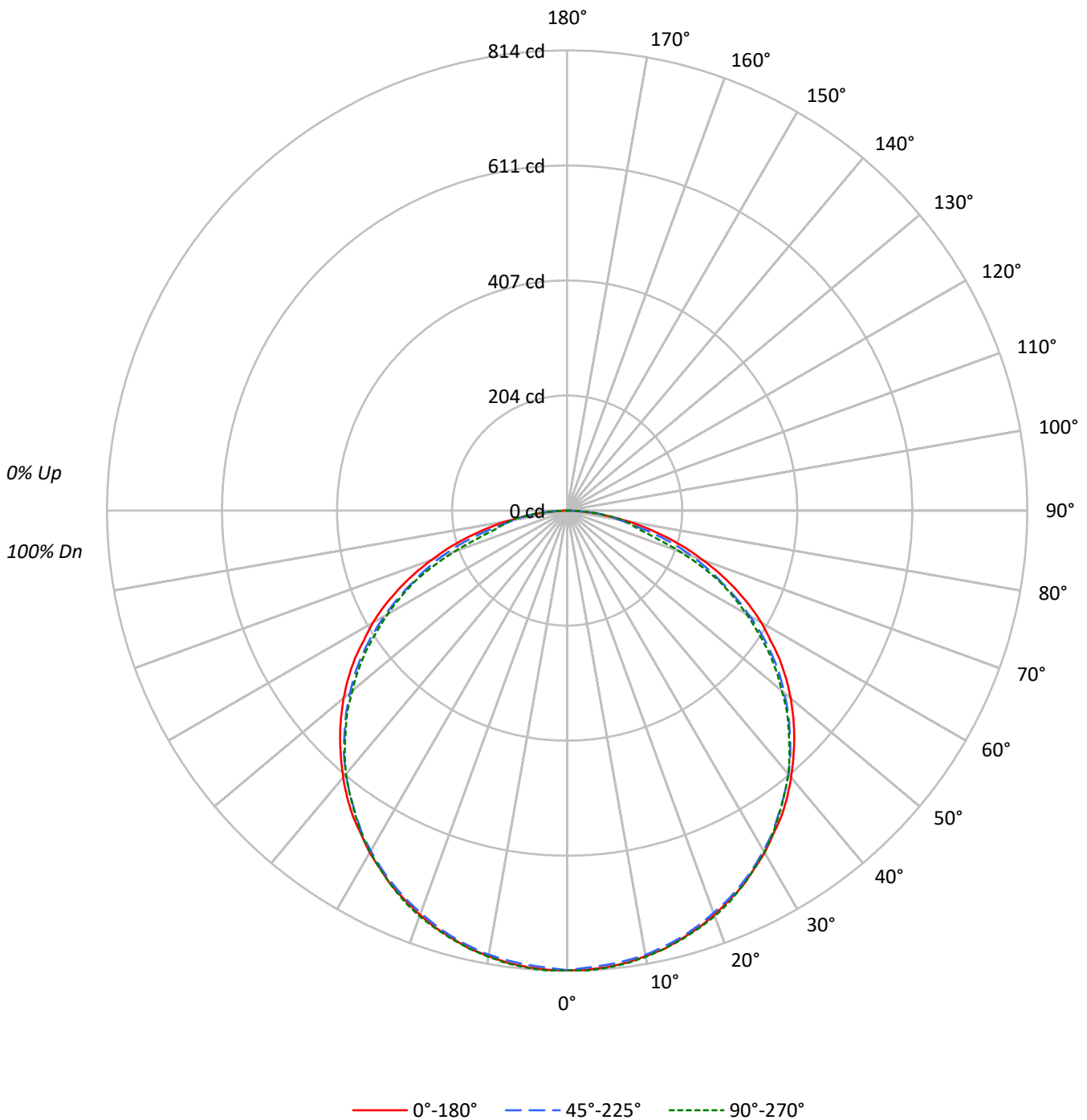
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3424	3424	3424
5°	3427	3410	3432
10°	3423	3412	3428
15°	3418	3407	3423
20°	3411	3394	3422
25°	3407	3389	3407
30°	3399	3380	3393
35°	3398	3359	3365
40°	3389	3347	3347
45°	3385	3317	3302
50°	3382	3283	3249
55°	3371	3241	3194
60°	3344	3141	3087
65°	3274	3009	2971
70°	3139	2889	2608
75°	2952	2601	2187
80°	2615	2246	2462
85°	2025	2329	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.2
10°-20°	221.1	9.2
20°-30°	337.0	14.0
30°-40°	410.4	17.1
40°-50°	431.5	18.0
50°-60°	396.1	16.5
60°-70°	304.3	12.7
70°-80°	169.8	7.1
80°-90°	51.6	2.1
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°	635.1	26.5
0°-40°	1045.5	43.6
0°-60°	1873.1	78.1
0°-90°	2398.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2398.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	813	813	813	813	813	
5°	810	810	807	810	812	77
15°	784	784	781	784	785	221
25°	733	730	729	732	733	338
35°	661	658	653	654	654	413
45°	568	564	557	554	554	438
55°	459	455	441	434	435	409
65°	328	320	302	298	298	325
75°	181	172	160	138	134	192
85°	42	43	48	47	46	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	813.0	813.0	813.0	813.0	813.0
2.5°	813.0	813.0	809.2	813.0	814.3
5°	810.5	810.5	806.6	810.5	811.7
7.5°	806.6	806.6	802.8	805.4	807.9
10°	800.3	800.3	797.8	800.3	801.6
12.5°	794.0	792.7	790.2	792.7	794.0
15°	783.8	783.8	781.3	783.8	785.1
17.5°	773.7	772.4	769.9	773.7	774.9
20°	761.0	759.7	757.2	761.0	763.5
22.5°	747.0	745.8	744.5	748.3	749.6
25°	733.1	730.5	729.3	731.8	733.1
27.5°	715.3	714.1	712.8	714.1	715.3
30°	698.8	696.3	695.0	695.0	697.6
32.5°	678.5	677.3	676.0	677.3	677.3
35°	660.8	658.3	653.2	654.5	654.5
37.5°	639.2	635.4	631.6	631.6	631.6
40°	616.4	613.9	608.8	607.5	608.8
42.5°	592.3	589.8	584.7	580.9	582.2
45°	568.2	564.4	556.8	554.3	554.3
47.5°	542.8	539.0	530.2	526.4	527.6
50°	516.2	511.1	501.0	495.9	495.9
52.5°	488.3	483.2	473.1	466.7	466.7
55°	459.1	455.3	441.4	433.8	435.0
57.5°	426.2	422.3	408.4	399.5	399.5
60°	397.0	389.4	372.9	366.5	366.5
62.5°	364.0	355.1	338.6	331.0	332.3
65°	328.5	319.6	301.9	298.1	298.1
67.5°	293.0	285.4	268.9	262.5	256.2
70°	254.9	247.3	234.6	219.4	211.8
72.5°	219.4	210.5	199.1	176.3	168.7
75°	181.4	172.5	159.8	138.2	134.4
77.5°	144.6	137.0	119.2	114.1	116.7
80°	107.8	105.3	92.6	97.7	101.5
82.5°	72.3	71.0	73.6	76.1	76.1
85°	41.9	43.1	48.2	46.9	45.7
87.5°	17.8	21.6	20.3	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)