

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: P238758

Luminaire Tested: **14EN-LD2-28-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238758
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: 14EN-LD2-28-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2813.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

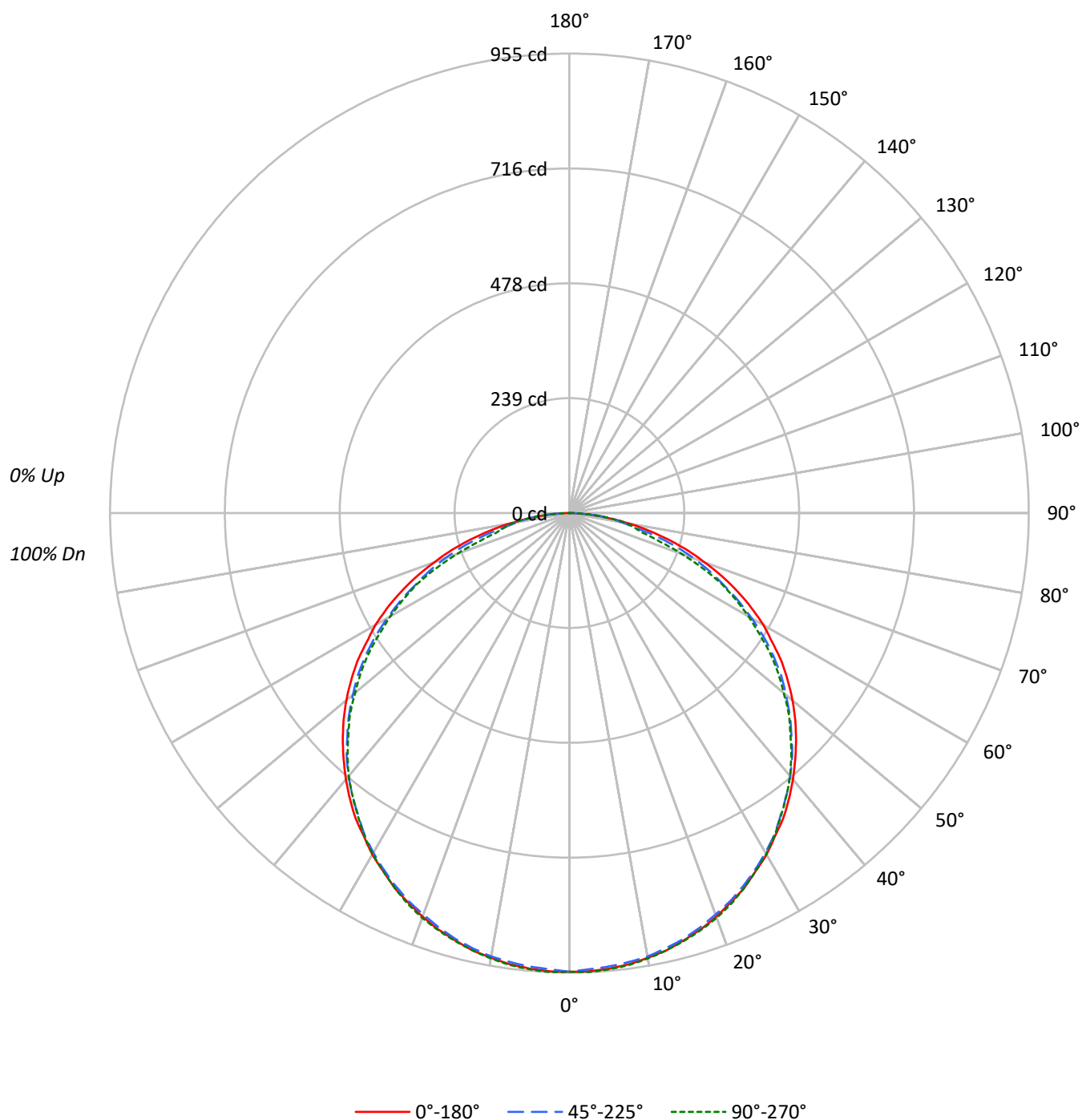
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		90
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		45
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		38
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2677	2677	2677
5°	2679	2666	2683
10°	2676	2667	2680
15°	2672	2663	2676
20°	2667	2653	2675
25°	2663	2650	2663
30°	2657	2643	2652
35°	2656	2625	2631
40°	2649	2617	2617
45°	2646	2593	2581
50°	2644	2566	2540
55°	2636	2534	2497
60°	2614	2456	2414
65°	2559	2352	2322
70°	2454	2259	2039
75°	2308	2033	1711
80°	2044	1756	1924
85°	1582	1820	1724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.2
10°-20°	259.3	9.2
20°-30°	395.2	14.0
30°-40°	481.3	17.1
40°-50°	506.0	18.0
50°-60°	464.5	16.5
60°-70°	356.9	12.7
70°-80°	199.2	7.1
80°-90°	60.5	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°	744.8	26.5
0°-40°	1226.0	43.6
0°-60°	2196.5	78.1
0°-90°	2813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	950	950	946	950	952	90
15°	919	919	916	919	921	260
25°	860	857	855	858	860	396
35°	775	772	766	767	767	484
45°	666	662	653	650	650	514
55°	538	534	518	509	510	480
65°	385	375	354	350	350	381
75°	213	202	187	162	158	225
85°	49	51	56	55	54	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.3	953.3	953.3	953.3	953.3
2.5°	953.3	953.3	948.9	953.3	954.8
5°	950.4	950.4	945.9	950.4	951.8
7.5°	945.9	945.9	941.4	944.4	947.4
10°	938.5	938.5	935.5	938.5	940.0
12.5°	931.0	929.5	926.6	929.5	931.0
15°	919.1	919.1	916.2	919.1	920.6
17.5°	907.2	905.7	902.8	907.2	908.7
20°	892.4	890.9	887.9	892.4	895.3
22.5°	876.0	874.5	873.0	877.5	879.0
25°	859.6	856.7	855.2	858.2	859.6
27.5°	838.8	837.3	835.8	837.3	838.8
30°	819.5	816.5	815.0	815.0	818.0
32.5°	795.7	794.2	792.7	794.2	794.2
35°	774.9	771.9	765.9	767.4	767.4
37.5°	749.6	745.1	740.7	740.7	740.7
40°	722.8	719.8	713.9	712.4	713.9
42.5°	694.6	691.6	685.6	681.2	682.7
45°	666.3	661.8	652.9	649.9	649.9
47.5°	636.5	632.1	621.7	617.2	618.7
50°	605.3	599.4	587.5	581.5	581.5
52.5°	572.6	566.6	554.7	547.3	547.3
55°	538.4	533.9	517.6	508.6	510.1
57.5°	499.7	495.3	478.9	468.5	468.5
60°	465.5	456.6	437.3	429.8	429.8
62.5°	426.8	416.4	397.1	388.2	389.7
65°	385.2	374.8	354.0	349.5	349.5
67.5°	343.6	334.6	315.3	307.9	300.4
70°	298.9	290.0	275.1	257.3	248.4
72.5°	257.3	246.9	233.5	206.7	197.8
75°	212.7	202.3	187.4	162.1	157.7
77.5°	169.5	160.6	139.8	133.9	136.8
80°	126.4	123.4	108.6	114.5	119.0
82.5°	84.8	83.3	86.3	89.2	89.2
85°	49.1	50.6	56.5	55.0	53.5
87.5°	20.8	25.3	23.8	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)