

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: P238956

Luminaire Tested: **24ENA-LD2-74-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-74-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8099.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

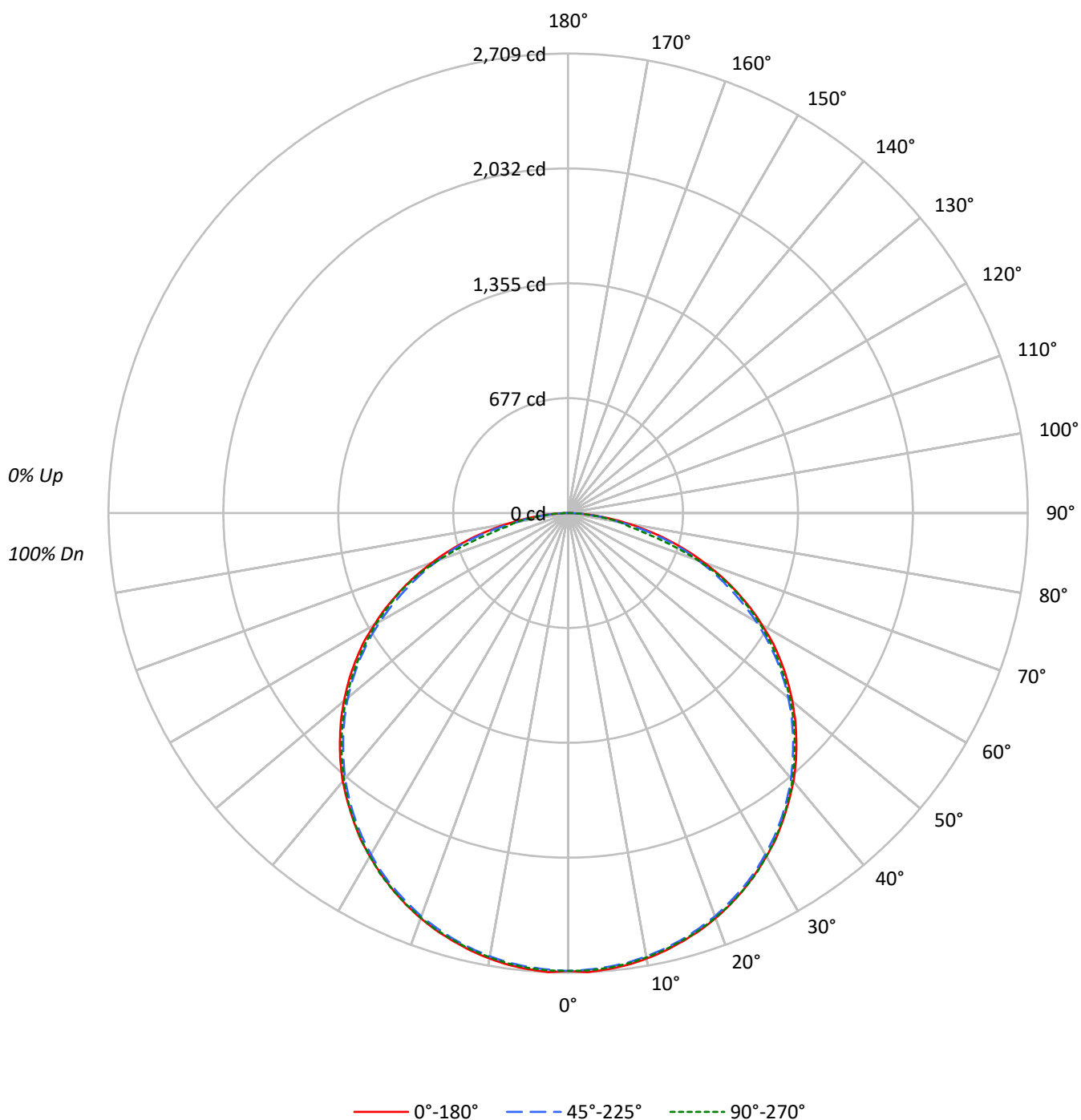
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	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	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4548	4548	4548
5°	4565	4542	4553
10°	4563	4540	4551
15°	4557	4537	4549
20°	4557	4536	4551
25°	4552	4530	4552
30°	4546	4520	4546
35°	4542	4511	4535
40°	4544	4496	4522
45°	4532	4467	4500
50°	4520	4440	4480
55°	4504	4394	4439
60°	4448	4311	4402
65°	4358	4176	4331
70°	4201	4027	4018
75°	3955	3778	3195
80°	3481	2955	3038
85°	2749	2585	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	3.2
10°-20°	735.3	9.1
20°-30°	1125.1	13.9
30°-40°	1375.2	17.0
40°-50°	1453.2	17.9
50°-60°	1346.5	16.6
60°-70°	1054.9	13.0
70°-80°	596.4	7.4
80°-90°	157.1	1.9
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°	2116.1	26.1
0°-40°	3491.3	43.1
0°-60°	6291.0	77.7
0°-90°	8099.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8099.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2699	2699	2699	2699	2699	
5°	2699	2691	2686	2684	2692	257
15°	2613	2603	2601	2599	2608	738
25°	2449	2439	2437	2437	2449	1129
35°	2208	2198	2193	2193	2205	1383
45°	1902	1889	1875	1875	1889	1468
55°	1533	1516	1496	1499	1511	1369
65°	1093	1073	1048	1061	1086	1081
75°	608	591	580	518	491	639
85°	142	134	134	127	124	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2699.2	2699.2	2699.2	2699.2	2699.2
2.5°	2709.3	2697.5	2694.1	2690.7	2699.2
5°	2699.2	2690.7	2685.6	2683.9	2692.4
7.5°	2687.3	2677.2	2673.8	2670.4	2678.9
10°	2667.0	2656.9	2653.5	2651.8	2660.3
12.5°	2643.3	2631.5	2629.8	2628.1	2636.6
15°	2612.9	2602.7	2601.0	2599.3	2607.8
17.5°	2580.7	2570.6	2567.2	2565.5	2577.3
20°	2541.8	2531.6	2529.9	2528.3	2538.4
22.5°	2497.8	2487.6	2484.3	2485.9	2496.1
25°	2448.7	2438.6	2436.9	2436.9	2448.7
27.5°	2394.6	2384.4	2384.4	2384.4	2397.9
30°	2337.0	2328.6	2323.5	2325.2	2337.0
32.5°	2277.8	2264.3	2260.9	2262.6	2274.4
35°	2208.4	2198.3	2193.2	2193.2	2205.0
37.5°	2137.3	2127.2	2120.4	2120.4	2132.3
40°	2066.3	2051.0	2044.3	2040.9	2056.1
42.5°	1986.7	1974.9	1959.6	1959.6	1973.2
45°	1902.1	1888.6	1875.0	1875.0	1888.6
47.5°	1815.8	1802.3	1787.0	1787.0	1800.6
50°	1724.4	1710.9	1694.0	1694.0	1709.2
52.5°	1631.3	1616.1	1597.5	1595.8	1611.0
55°	1533.2	1516.3	1496.0	1499.4	1511.2
57.5°	1433.4	1411.4	1391.0	1391.0	1409.7
60°	1320.0	1301.4	1279.4	1282.7	1306.4
62.5°	1211.7	1188.0	1166.0	1174.4	1194.7
65°	1093.2	1072.9	1047.5	1061.1	1086.4
67.5°	976.4	954.4	934.1	951.1	962.9
70°	852.9	832.6	817.4	817.4	815.7
72.5°	729.4	710.8	707.4	675.2	654.9
75°	607.5	590.6	580.4	517.8	490.8
77.5°	480.6	475.5	443.4	377.4	368.9
80°	358.8	362.1	304.6	306.3	313.1
82.5°	247.1	242.0	228.5	218.3	214.9
85°	142.2	133.7	133.7	126.9	123.5
87.5°	47.4	52.5	52.5	52.5	54.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)