

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: P238952

Luminaire Tested: **24ENA-LD2-70-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238952
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-LD2-70-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: 7601.1 lumens
Efficiency: N/A
Efficacy: 126.3 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

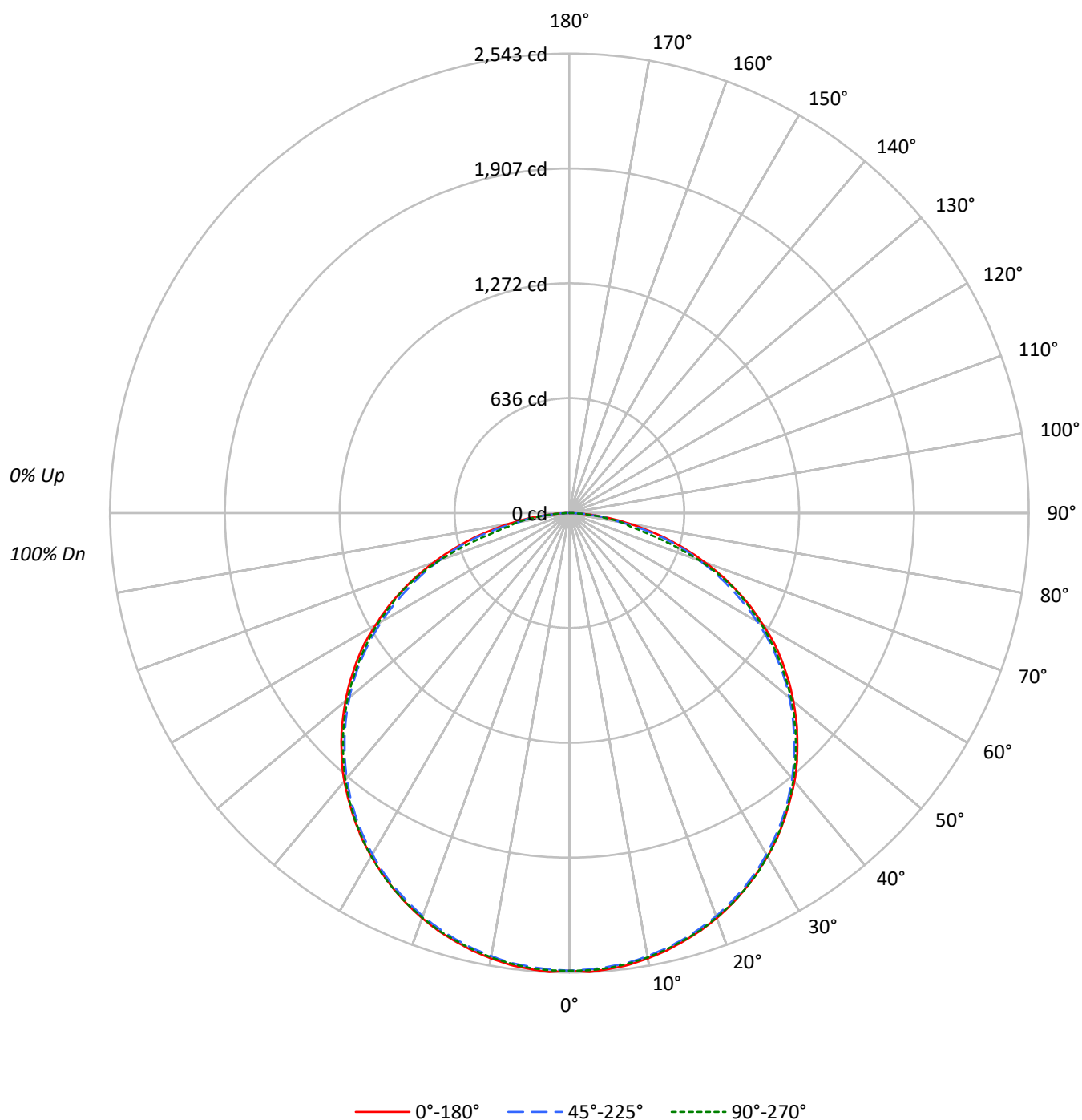
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238952

CATALOG NUMBER: 24ENA-LD2-70-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238952

CATALOG NUMBER: 24ENA-LD2-70-UNV-L850-CD1-U

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4268	4268	4268
5°	4284	4263	4273
10°	4282	4260	4271
15°	4277	4258	4269
20°	4277	4257	4271
25°	4272	4251	4272
30°	4267	4242	4267
35°	4263	4233	4256
40°	4265	4219	4244
45°	4253	4193	4223
50°	4242	4167	4204
55°	4227	4124	4166
60°	4174	4046	4131
65°	4090	3919	4065
70°	3943	3779	3771
75°	3712	3546	2998
80°	3267	2774	2851
85°	2579	2426	2240



TEST NUMBER: P238952

CATALOG NUMBER: 24ENA-LD2-70-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	3.2
10°-20°	690.0	9.1
20°-30°	1055.9	13.9
30°-40°	1290.6	17.0
40°-50°	1363.8	17.9
50°-60°	1263.6	16.6
60°-70°	990.0	13.0
70°-80°	559.7	7.4
80°-90°	147.4	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°	1985.9	26.1
0°-40°	3276.5	43.1
0°-60°	5904.0	77.7
0°-90°	7601.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7601.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2533	2533	2533	2533	2533	
5°	2533	2525	2520	2519	2527	241
15°	2452	2443	2441	2439	2447	693
25°	2298	2289	2287	2287	2298	1060
35°	2073	2063	2058	2058	2069	1298
45°	1785	1772	1760	1760	1772	1378
55°	1439	1423	1404	1407	1418	1285
65°	1026	1007	983	996	1020	1014
75°	570	554	545	486	461	600
85°	133	126	126	119	116	157
90°	0	0	0	0	0	



TEST NUMBER: P238952

CATALOG NUMBER: 24ENA-LD2-70-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2533.1	2533.1	2533.1	2533.1	2533.1
2.5°	2542.7	2531.5	2528.4	2525.2	2533.1
5°	2533.1	2525.2	2520.4	2518.8	2526.8
7.5°	2522.0	2512.5	2509.3	2506.1	2514.1
10°	2503.0	2493.4	2490.3	2488.7	2496.6
12.5°	2480.7	2469.6	2468.0	2466.4	2474.4
15°	2452.1	2442.6	2441.0	2439.4	2447.4
17.5°	2422.0	2412.4	2409.3	2407.7	2418.8
20°	2385.4	2375.9	2374.3	2372.7	2382.3
22.5°	2344.1	2334.6	2331.4	2333.0	2342.6
25°	2298.1	2288.6	2287.0	2287.0	2298.1
27.5°	2247.3	2237.7	2237.7	2237.7	2250.4
30°	2193.3	2185.3	2180.6	2182.1	2193.3
32.5°	2137.7	2125.0	2121.8	2123.4	2134.5
35°	2072.6	2063.0	2058.3	2058.3	2069.4
37.5°	2005.9	1996.3	1990.0	1990.0	2001.1
40°	1939.2	1924.9	1918.5	1915.3	1929.6
42.5°	1864.5	1853.4	1839.1	1839.1	1851.8
45°	1785.1	1772.4	1759.7	1759.7	1772.4
47.5°	1704.1	1691.4	1677.1	1677.1	1689.8
50°	1618.3	1605.6	1589.8	1589.8	1604.1
52.5°	1531.0	1516.7	1499.2	1497.6	1511.9
55°	1438.9	1423.0	1403.9	1407.1	1418.2
57.5°	1345.2	1324.5	1305.5	1305.5	1322.9
60°	1238.8	1221.3	1200.7	1203.8	1226.1
62.5°	1137.1	1114.9	1094.3	1102.2	1121.2
65°	1026.0	1006.9	983.1	995.8	1019.6
67.5°	916.4	895.7	876.7	892.6	903.7
70°	800.4	781.4	767.1	767.1	765.5
72.5°	684.5	667.0	663.9	633.7	614.6
75°	570.2	554.3	544.7	486.0	460.6
77.5°	451.0	446.3	416.1	354.2	346.2
80°	336.7	339.9	285.9	287.5	293.8
82.5°	231.9	227.1	214.4	204.9	201.7
85°	133.4	125.5	125.5	119.1	115.9
87.5°	44.5	49.2	49.2	49.2	50.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)