

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: P238924

Luminaire Tested: **24ENA-LD2-34-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238924
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-LD2-34-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.5 lumens
Efficiency: N/A
Efficacy: 136.2 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

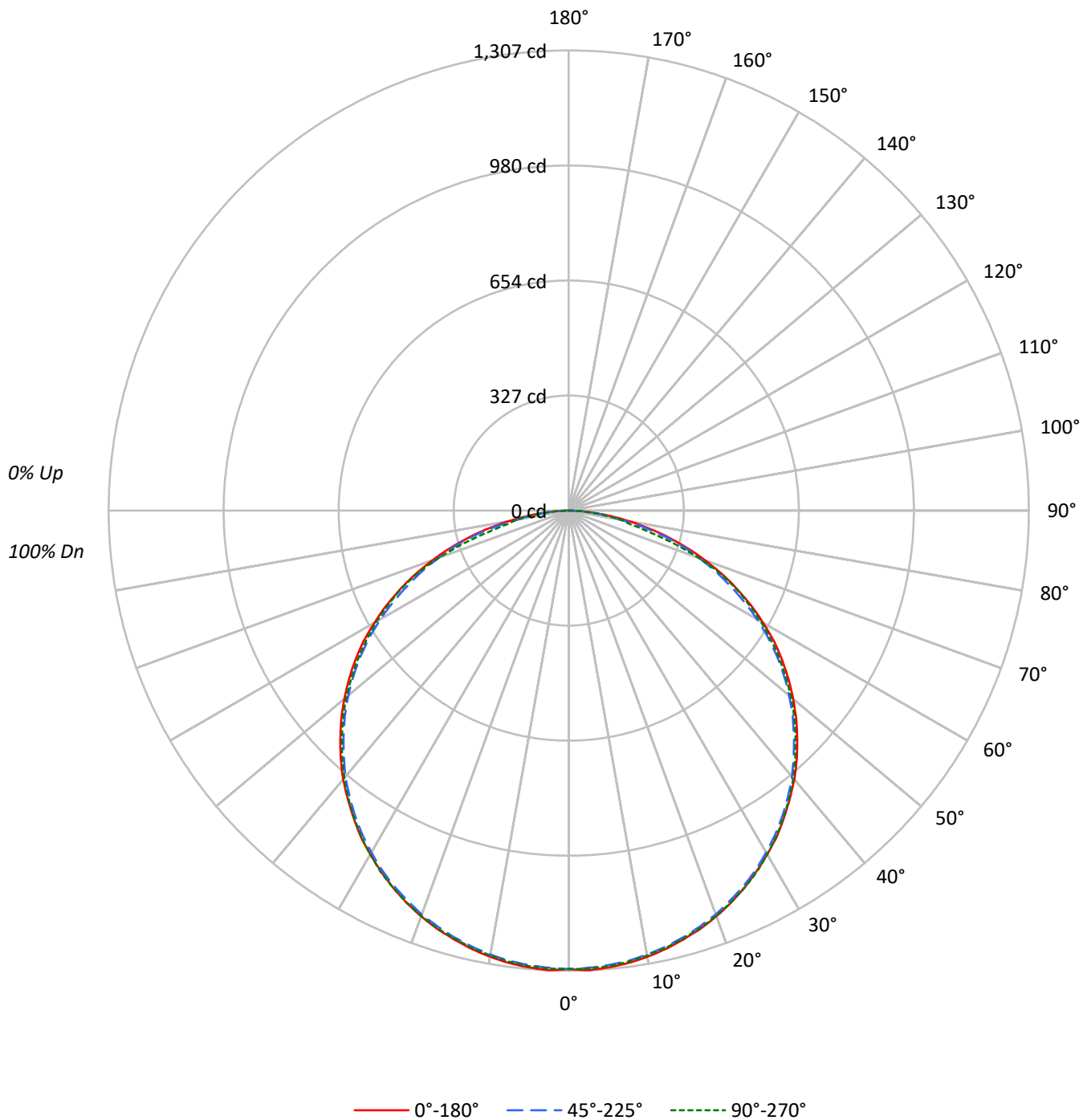
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238924

CATALOG NUMBER: 24ENA-LD2-34-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238924

CATALOG NUMBER: 24ENA-LD2-34-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	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°	2194	2194	2194
5°	2202	2191	2197
10°	2201	2190	2196
15°	2199	2189	2194
20°	2199	2188	2196
25°	2196	2186	2196
30°	2193	2181	2193
35°	2191	2176	2188
40°	2193	2169	2182
45°	2187	2155	2171
50°	2181	2142	2161
55°	2173	2120	2142
60°	2146	2080	2124
65°	2103	2015	2090
70°	2027	1942	1938
75°	1908	1823	1541
80°	1679	1426	1465
85°	1326	1247	1152



TEST NUMBER: P238924

CATALOG NUMBER: 24ENA-LD2-34-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.2
10°-20°	354.7	9.1
20°-30°	542.8	13.9
30°-40°	663.5	17.0
40°-50°	701.1	17.9
50°-60°	649.6	16.6
60°-70°	508.9	13.0
70°-80°	287.7	7.4
80°-90°	75.8	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°	1020.9	26.1
0°-40°	1684.4	43.1
0°-60°	3035.1	77.7
0°-90°	3907.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1302	1298	1296	1295	1299	124
15°	1261	1256	1255	1254	1258	356
25°	1181	1176	1176	1176	1181	545
35°	1066	1061	1058	1058	1064	667
45°	918	911	905	905	911	708
55°	740	732	722	723	729	661
65°	527	518	505	512	524	521
75°	293	285	280	250	237	308
85°	69	64	64	61	60	81
90°	0	0	0	0	0	



TEST NUMBER: P238924

CATALOG NUMBER: 24ENA-LD2-34-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1307.1	1301.4	1299.8	1298.1	1302.2
5°	1302.2	1298.1	1295.7	1294.9	1299.0
7.5°	1296.5	1291.6	1290.0	1288.3	1292.4
10°	1286.7	1281.8	1280.2	1279.4	1283.4
12.5°	1275.3	1269.6	1268.7	1267.9	1272.0
15°	1260.6	1255.7	1254.9	1254.1	1258.1
17.5°	1245.1	1240.2	1238.5	1237.7	1243.4
20°	1226.3	1221.4	1220.6	1219.8	1224.7
22.5°	1205.1	1200.2	1198.5	1199.4	1204.2
25°	1181.4	1176.5	1175.7	1175.7	1181.4
27.5°	1155.3	1150.4	1150.4	1150.4	1156.9
30°	1127.5	1123.4	1121.0	1121.8	1127.5
32.5°	1098.9	1092.4	1090.8	1091.6	1097.3
35°	1065.5	1060.6	1058.1	1058.1	1063.8
37.5°	1031.2	1026.3	1023.0	1023.0	1028.7
40°	996.9	989.5	986.3	984.6	992.0
42.5°	958.5	952.8	945.4	945.4	952.0
45°	917.7	911.1	904.6	904.6	911.1
47.5°	876.0	869.5	862.2	862.2	868.7
50°	832.0	825.4	817.3	817.3	824.6
52.5°	787.0	779.7	770.7	769.9	777.3
55°	739.7	731.5	721.7	723.4	729.1
57.5°	691.5	680.9	671.1	671.1	680.1
60°	636.8	627.8	617.2	618.9	630.3
62.5°	584.6	573.1	562.5	566.6	576.4
65°	527.4	517.6	505.4	511.9	524.2
67.5°	471.1	460.5	450.7	458.8	464.6
70°	411.5	401.7	394.3	394.3	393.5
72.5°	351.9	342.9	341.3	325.8	316.0
75°	293.1	284.9	280.0	249.8	236.8
77.5°	231.9	229.4	213.9	182.1	178.0
80°	173.1	174.7	147.0	147.8	151.0
82.5°	119.2	116.8	110.2	105.3	103.7
85°	68.6	64.5	64.5	61.2	59.6
87.5°	22.9	25.3	25.3	25.3	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)