

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: P238926

Luminaire Tested: **24ENA-LD2-40-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238926
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-LD2-40-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4099.4 lumens
Efficiency: N/A
Efficacy: 120.9 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

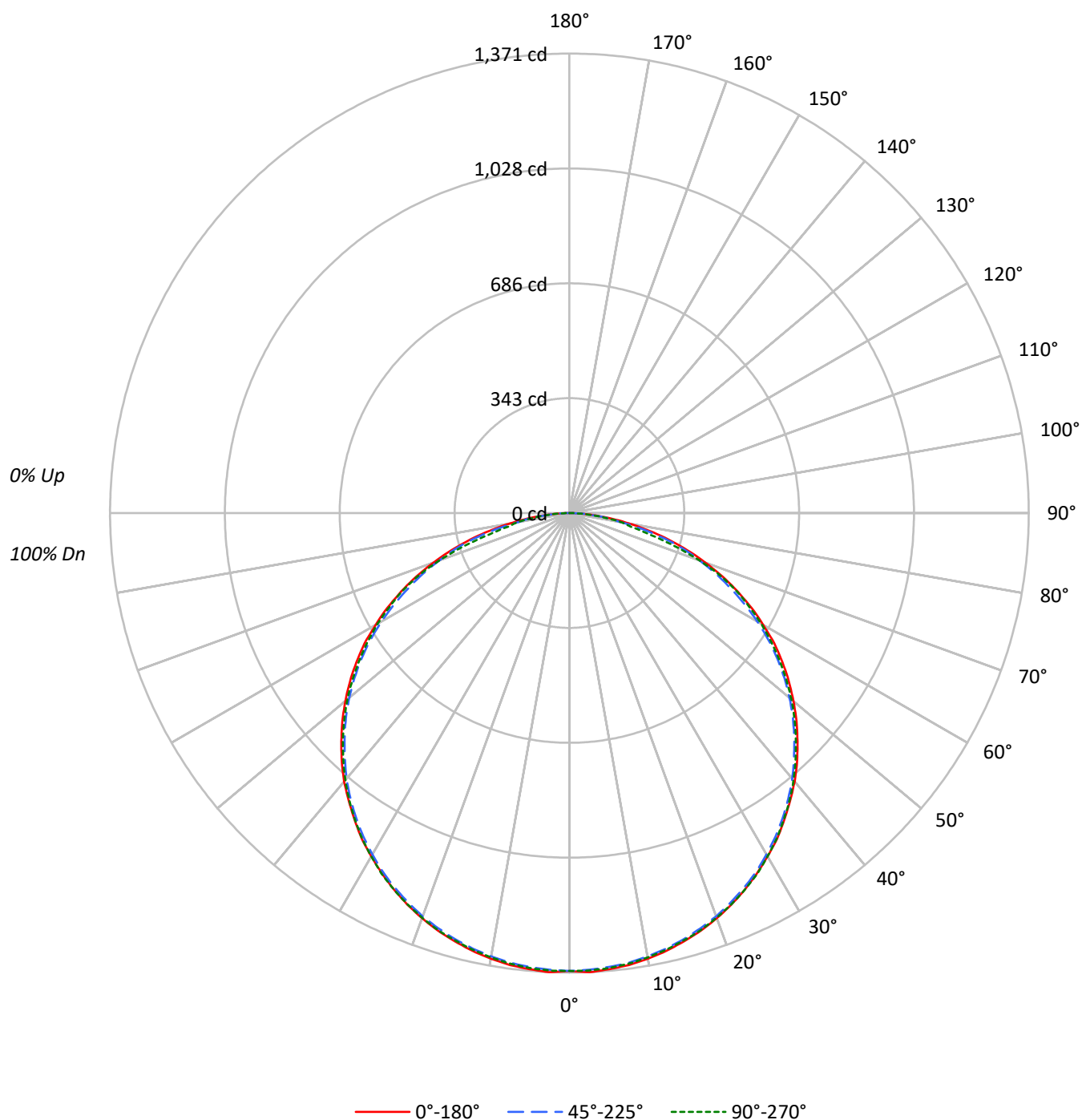
Input Watts (W): 33.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2302	2302	2302
5°	2310	2299	2305
10°	2309	2298	2303
15°	2307	2296	2302
20°	2307	2296	2304
25°	2304	2293	2304
30°	2301	2288	2301
35°	2299	2283	2295
40°	2300	2276	2289
45°	2294	2261	2278
50°	2288	2247	2267
55°	2279	2224	2247
60°	2251	2182	2228
65°	2206	2114	2192
70°	2127	2038	2033
75°	2002	1912	1617
80°	1762	1496	1538
85°	1390	1309	1208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	3.2
10°-20°	372.1	9.1
20°-30°	569.5	13.9
30°-40°	696.0	17.0
40°-50°	735.5	17.9
50°-60°	681.5	16.6
60°-70°	533.9	13.0
70°-80°	301.9	7.4
80°-90°	79.5	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°	1071.0	26.1
0°-40°	1767.1	43.1
0°-60°	3184.1	77.7
0°-90°	4099.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4099.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1366	1362	1359	1358	1363	130
15°	1322	1317	1316	1316	1320	374
25°	1239	1234	1233	1233	1239	571
35°	1118	1113	1110	1110	1116	700
45°	963	956	949	949	956	743
55°	776	767	757	759	765	693
65°	553	543	530	537	550	547
75°	308	299	294	262	248	323
85°	72	68	68	64	62	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.1	1366.1	1366.1	1366.1	1366.1
2.5°	1371.3	1365.3	1363.6	1361.9	1366.1
5°	1366.1	1361.9	1359.3	1358.4	1362.7
7.5°	1360.1	1355.0	1353.3	1351.6	1355.9
10°	1349.9	1344.7	1343.0	1342.2	1346.4
12.5°	1337.9	1331.9	1331.0	1330.2	1334.5
15°	1322.5	1317.3	1316.5	1315.6	1319.9
17.5°	1306.2	1301.0	1299.3	1298.5	1304.5
20°	1286.5	1281.3	1280.5	1279.6	1284.8
22.5°	1264.2	1259.1	1257.4	1258.2	1263.4
25°	1239.4	1234.2	1233.4	1233.4	1239.4
27.5°	1212.0	1206.8	1206.8	1206.8	1213.7
30°	1182.8	1178.6	1176.0	1176.9	1182.8
32.5°	1152.9	1146.0	1144.3	1145.2	1151.2
35°	1117.8	1112.6	1110.0	1110.0	1116.0
37.5°	1081.8	1076.6	1073.2	1073.2	1079.2
40°	1045.8	1038.1	1034.7	1033.0	1040.7
42.5°	1005.6	999.6	991.8	991.8	998.7
45°	962.7	955.9	949.0	949.0	955.9
47.5°	919.0	912.2	904.5	904.5	911.3
50°	872.8	865.9	857.4	857.4	865.1
52.5°	825.7	818.0	808.6	807.7	815.4
55°	776.0	767.4	757.2	758.9	764.9
57.5°	725.5	714.3	704.1	704.1	713.5
60°	668.1	658.7	647.5	649.2	661.2
62.5°	613.3	601.3	590.1	594.4	604.7
65°	553.3	543.0	530.2	537.0	549.9
67.5°	494.2	483.1	472.8	481.4	487.4
70°	431.7	421.4	413.7	413.7	412.8
72.5°	369.2	359.7	358.0	341.8	331.5
75°	307.5	298.9	293.8	262.1	248.4
77.5°	243.3	240.7	224.4	191.0	186.7
80°	181.6	183.3	154.2	155.0	158.5
82.5°	125.1	122.5	115.6	110.5	108.8
85°	71.9	67.7	67.7	64.2	62.5
87.5°	24.0	26.6	26.6	26.6	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)