

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: P239008

Luminaire Tested: **24ENA-LD2-40-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239008
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.2 lumens
Efficiency: N/A
Efficacy: 115.4 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

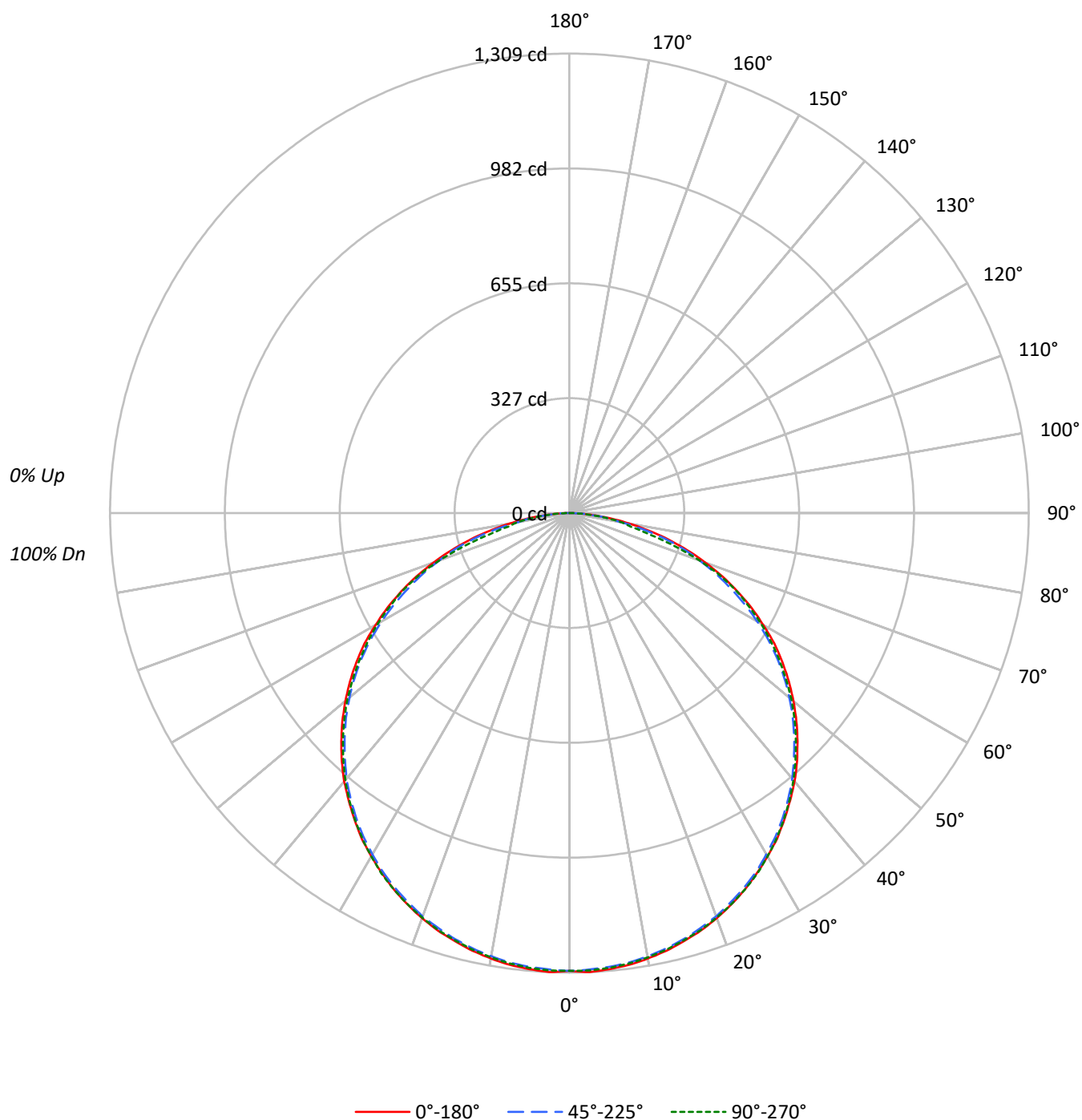
Input Watts (W): 33.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2197	2197	2197
5°	2206	2195	2200
10°	2205	2193	2199
15°	2202	2192	2198
20°	2202	2192	2199
25°	2199	2189	2199
30°	2197	2184	2197
35°	2195	2179	2191
40°	2196	2172	2185
45°	2190	2158	2174
50°	2184	2145	2164
55°	2176	2123	2145
60°	2149	2083	2127
65°	2106	2018	2093
70°	2030	1945	1941
75°	1911	1825	1543
80°	1681	1428	1468
85°	1328	1249	1154



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.2
10°-20°	355.3	9.1
20°-30°	543.6	13.9
30°-40°	664.5	17.0
40°-50°	702.1	17.9
50°-60°	650.5	16.6
60°-70°	509.7	13.0
70°-80°	288.1	7.4
80°-90°	75.9	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°	1022.4	26.1
0°-40°	1686.8	43.1
0°-60°	3039.5	77.7
0°-90°	3913.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1304	1300	1298	1297	1301	124
15°	1262	1258	1257	1256	1260	357
25°	1183	1178	1177	1177	1183	545
35°	1067	1062	1060	1060	1065	668
45°	919	912	906	906	912	709
55°	741	733	723	724	730	662
65°	528	518	506	513	525	522
75°	294	285	280	250	237	309
85°	69	65	65	61	60	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.1	1304.1	1304.1	1304.1	1304.1
2.5°	1309.0	1303.3	1301.7	1300.0	1304.1
5°	1304.1	1300.0	1297.6	1296.8	1300.8
7.5°	1298.4	1293.5	1291.9	1290.2	1294.3
10°	1288.6	1283.7	1282.0	1281.2	1285.3
12.5°	1277.1	1271.4	1270.6	1269.8	1273.9
15°	1262.4	1257.5	1256.7	1255.9	1260.0
17.5°	1246.9	1242.0	1240.3	1239.5	1245.2
20°	1228.1	1223.2	1222.4	1221.5	1226.4
22.5°	1206.8	1201.9	1200.3	1201.1	1206.0
25°	1183.1	1178.2	1177.4	1177.4	1183.1
27.5°	1156.9	1152.0	1152.0	1152.0	1158.6
30°	1129.1	1125.1	1122.6	1123.4	1129.1
32.5°	1100.5	1094.0	1092.4	1093.2	1098.9
35°	1067.0	1062.1	1059.6	1059.6	1065.4
37.5°	1032.7	1027.8	1024.5	1024.5	1030.2
40°	998.3	991.0	987.7	986.1	993.4
42.5°	959.9	954.2	946.8	946.8	953.4
45°	919.0	912.5	905.9	905.9	912.5
47.5°	877.3	870.8	863.4	863.4	870.0
50°	833.2	826.6	818.4	818.4	825.8
52.5°	788.2	780.8	771.8	771.0	778.4
55°	740.8	732.6	722.8	724.4	730.1
57.5°	692.5	681.9	672.1	672.1	681.1
60°	637.7	628.8	618.1	619.8	631.2
62.5°	585.4	574.0	563.3	567.4	577.2
65°	528.2	518.4	506.1	512.7	524.9
67.5°	471.8	461.1	451.3	459.5	465.2
70°	412.1	402.3	394.9	394.9	394.1
72.5°	352.4	343.4	341.8	326.2	316.4
75°	293.5	285.4	280.4	250.2	237.1
77.5°	232.2	229.8	214.2	182.3	178.2
80°	173.3	175.0	147.2	148.0	151.3
82.5°	119.4	116.9	110.4	105.5	103.8
85°	68.7	64.6	64.6	61.3	59.7
87.5°	22.9	25.3	25.3	25.3	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)