

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: P239004

Luminaire Tested: **24ENA-LD2-34-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239004
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-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: 3360.5 lumens
Efficiency: N/A
Efficacy: 117.1 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

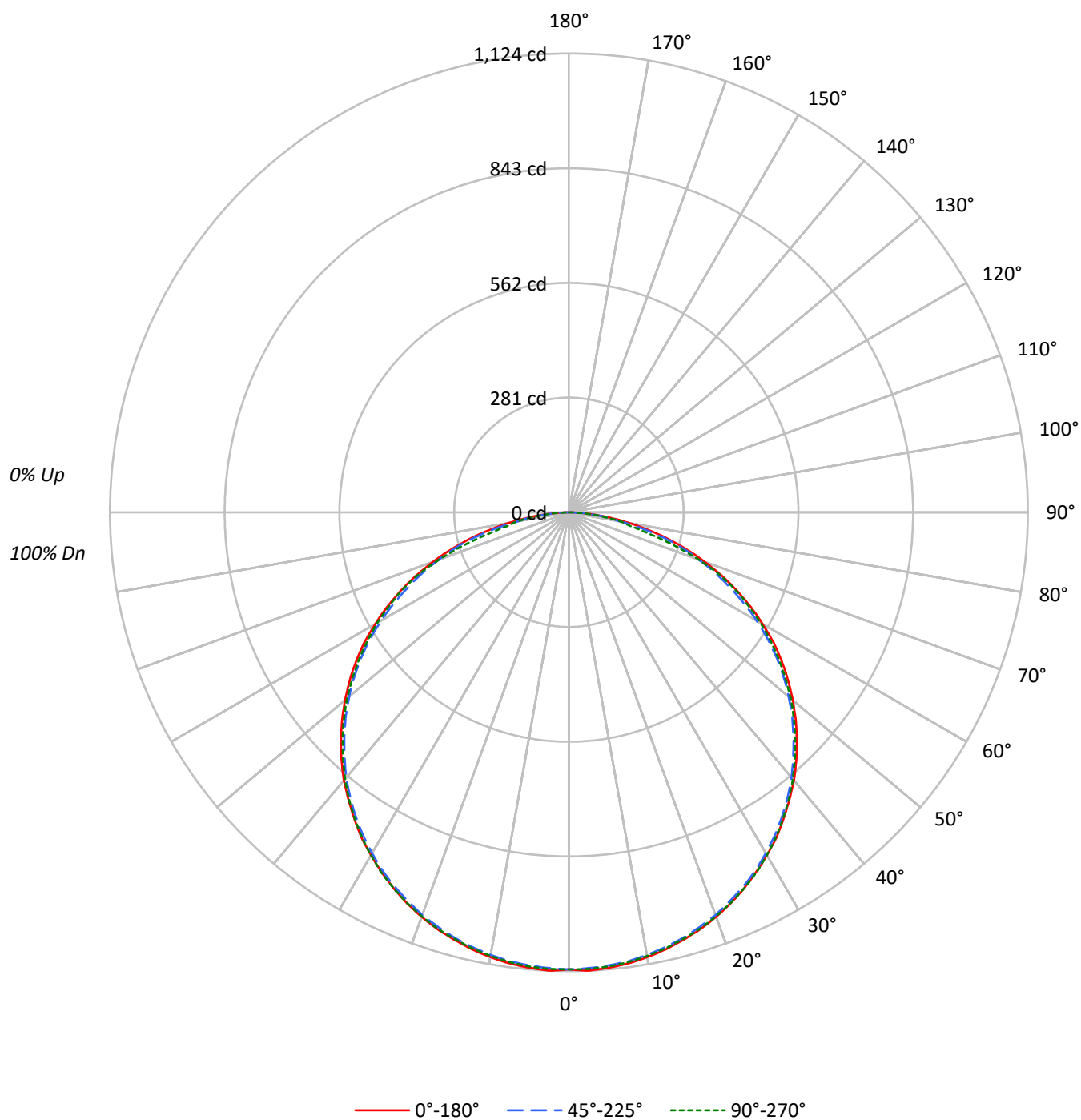
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1887	1887	1887
5°	1894	1885	1889
10°	1893	1884	1888
15°	1891	1882	1887
20°	1891	1882	1888
25°	1889	1880	1889
30°	1886	1875	1886
35°	1885	1872	1882
40°	1885	1865	1876
45°	1880	1854	1867
50°	1875	1842	1859
55°	1868	1823	1842
60°	1846	1789	1827
65°	1808	1733	1797
70°	1743	1670	1667
75°	1641	1567	1325
80°	1445	1226	1260
85°	1141	1073	992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	3.2
10°-20°	305.1	9.1
20°-30°	466.8	13.9
30°-40°	570.6	17.0
40°-50°	603.0	17.9
50°-60°	558.7	16.6
60°-70°	437.7	13.0
70°-80°	247.5	7.4
80°-90°	65.2	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°	878.0	26.1
0°-40°	1448.6	43.1
0°-60°	2610.2	77.7
0°-90°	3360.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3360.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1120	1116	1114	1114	1117	106
15°	1084	1080	1079	1078	1082	306
25°	1016	1012	1011	1011	1016	468
35°	916	912	910	910	915	574
45°	789	784	778	778	784	609
55°	636	629	621	622	627	568
65°	454	445	435	440	451	448
75°	252	245	241	215	204	265
85°	59	56	56	53	51	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.9	1119.9	1119.9	1119.9	1119.9
2.5°	1124.1	1119.2	1117.8	1116.4	1119.9
5°	1119.9	1116.4	1114.3	1113.6	1117.1
7.5°	1115.0	1110.8	1109.4	1108.0	1111.5
10°	1106.6	1102.4	1101.0	1100.3	1103.8
12.5°	1096.7	1091.8	1091.1	1090.4	1093.9
15°	1084.1	1079.9	1079.2	1078.5	1082.0
17.5°	1070.8	1066.5	1065.1	1064.4	1069.4
20°	1054.6	1050.4	1049.7	1049.0	1053.2
22.5°	1036.4	1032.1	1030.7	1031.4	1035.7
25°	1016.0	1011.8	1011.1	1011.1	1016.0
27.5°	993.5	989.3	989.3	989.3	994.9
30°	969.7	966.1	964.0	964.7	969.7
32.5°	945.1	939.5	938.1	938.8	943.7
35°	916.3	912.1	910.0	910.0	914.9
37.5°	886.8	882.6	879.8	879.8	884.7
40°	857.3	851.0	848.2	846.8	853.1
42.5°	824.3	819.4	813.1	813.1	818.7
45°	789.2	783.6	778.0	778.0	783.6
47.5°	753.4	747.8	741.5	741.5	747.1
50°	715.5	709.9	702.8	702.8	709.2
52.5°	676.9	670.5	662.8	662.1	668.4
55°	636.1	629.1	620.7	622.1	627.0
57.5°	594.7	585.6	577.2	577.2	584.9
60°	547.7	539.9	530.8	532.2	542.1
62.5°	502.7	492.9	483.8	487.3	495.7
65°	453.6	445.2	434.6	440.2	450.8
67.5°	405.1	396.0	387.6	394.6	399.5
70°	353.9	345.5	339.1	339.1	338.4
72.5°	302.6	294.9	293.5	280.2	271.7
75°	252.1	245.0	240.8	214.9	203.6
77.5°	199.4	197.3	184.0	156.6	153.1
80°	148.9	150.3	126.4	127.1	129.9
82.5°	102.5	100.4	94.8	90.6	89.2
85°	59.0	55.5	55.5	52.7	51.3
87.5°	19.7	21.8	21.8	21.8	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)