

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: P238936

Luminaire Tested: **24ENA-LD2-49-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238936
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-LD2-49-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: 5517.4 lumens
Efficiency: N/A
Efficacy: 130.7 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

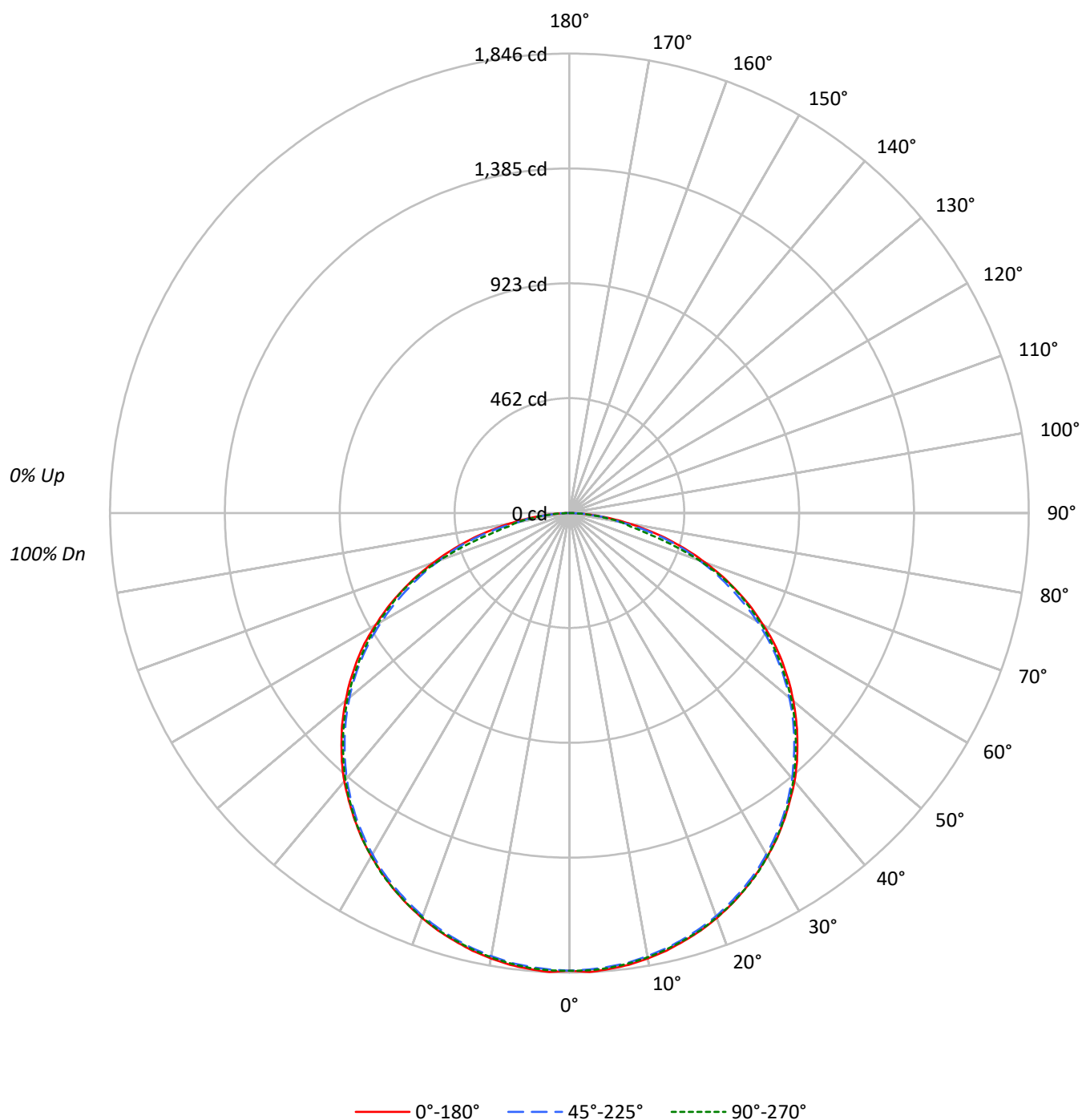
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3098	3098	3098
5°	3110	3094	3102
10°	3108	3092	3100
15°	3105	3090	3099
20°	3104	3090	3100
25°	3101	3086	3101
30°	3097	3079	3097
35°	3094	3073	3089
40°	3096	3063	3080
45°	3087	3043	3065
50°	3079	3024	3052
55°	3068	2993	3024
60°	3030	2937	2999
65°	2969	2845	2950
70°	2862	2743	2737
75°	2694	2574	2176
80°	2371	2013	2070
85°	1871	1761	1628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	3.2
10°-20°	500.9	9.1
20°-30°	766.4	13.9
30°-40°	936.8	17.0
40°-50°	990.0	17.9
50°-60°	917.2	16.6
60°-70°	718.6	13.0
70°-80°	406.3	7.4
80°-90°	107.0	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°	1441.5	26.1
0°-40°	2378.3	43.1
0°-60°	4285.5	77.7
0°-90°	5517.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5517.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1839	1833	1830	1828	1834	175
15°	1780	1773	1772	1771	1776	503
25°	1668	1661	1660	1660	1668	769
35°	1504	1498	1494	1494	1502	942
45°	1296	1286	1277	1277	1286	1000
55°	1044	1033	1019	1021	1029	933
65°	745	731	714	723	740	736
75°	414	402	395	353	334	435
85°	97	91	91	86	84	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1838.7	1838.7	1838.7	1838.7	1838.7
2.5°	1845.6	1837.6	1835.2	1832.9	1838.7
5°	1838.7	1832.9	1829.5	1828.3	1834.1
7.5°	1830.6	1823.7	1821.4	1819.1	1824.9
10°	1816.8	1809.9	1807.6	1806.4	1812.2
12.5°	1800.7	1792.6	1791.4	1790.3	1796.1
15°	1779.9	1773.0	1771.8	1770.7	1776.5
17.5°	1758.0	1751.1	1748.8	1747.6	1755.7
20°	1731.5	1724.6	1723.4	1722.3	1729.2
22.5°	1701.5	1694.6	1692.3	1693.5	1700.4
25°	1668.1	1661.2	1660.0	1660.0	1668.1
27.5°	1631.2	1624.3	1624.3	1624.3	1633.5
30°	1592.0	1586.2	1582.8	1583.9	1592.0
32.5°	1551.7	1542.4	1540.1	1541.3	1549.4
35°	1504.4	1497.5	1494.0	1494.0	1502.1
37.5°	1456.0	1449.1	1444.5	1444.5	1452.5
40°	1407.6	1397.2	1392.6	1390.3	1400.6
42.5°	1353.4	1345.3	1334.9	1334.9	1344.2
45°	1295.7	1286.5	1277.3	1277.3	1286.5
47.5°	1236.9	1227.7	1217.4	1217.4	1226.6
50°	1174.7	1165.5	1153.9	1153.9	1164.3
52.5°	1111.3	1100.9	1088.2	1087.1	1097.5
55°	1044.4	1032.9	1019.1	1021.4	1029.4
57.5°	976.4	961.4	947.6	947.6	960.3
60°	899.2	886.5	871.5	873.8	890.0
62.5°	825.4	809.3	794.3	800.0	813.9
65°	744.7	730.9	713.6	722.8	740.1
67.5°	665.2	650.2	636.3	647.9	655.9
70°	581.0	567.2	556.8	556.8	555.6
72.5°	496.9	484.2	481.9	460.0	446.1
75°	413.9	402.3	395.4	352.8	334.3
77.5°	327.4	323.9	302.0	257.1	251.3
80°	244.4	246.7	207.5	208.7	213.3
82.5°	168.3	164.8	155.6	148.7	146.4
85°	96.8	91.1	91.1	86.5	84.2
87.5°	32.3	35.7	35.7	35.7	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)