

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: P239016

Luminaire Tested: **24ENA-LD2-49-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239016
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4744.9 lumens
Efficiency: N/A
Efficacy: 112.4 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

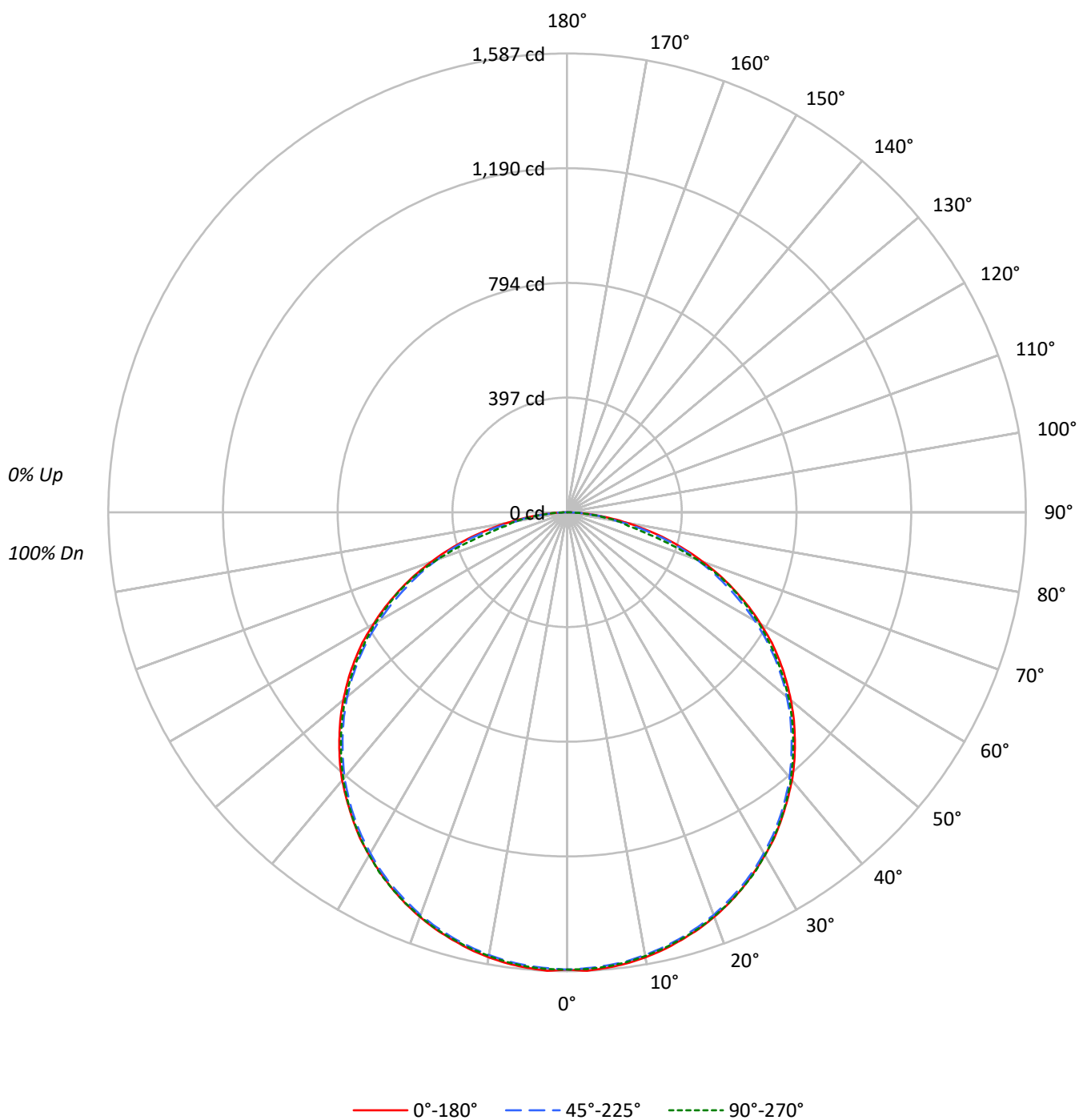
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2664	2664	2664
5°	2674	2661	2668
10°	2673	2659	2666
15°	2670	2658	2665
20°	2670	2657	2666
25°	2667	2654	2667
30°	2663	2648	2663
35°	2661	2643	2657
40°	2662	2634	2649
45°	2655	2617	2636
50°	2648	2601	2624
55°	2638	2574	2600
60°	2606	2525	2579
65°	2553	2447	2537
70°	2462	2359	2354
75°	2317	2214	1871
80°	2039	1732	1779
85°	1610	1514	1400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.2
10°-20°	430.8	9.1
20°-30°	659.1	13.9
30°-40°	805.7	17.0
40°-50°	851.4	17.9
50°-60°	788.8	16.6
60°-70°	618.0	13.0
70°-80°	349.4	7.4
80°-90°	92.0	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°	1239.7	26.1
0°-40°	2045.3	43.1
0°-60°	3685.5	77.7
0°-90°	4744.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4744.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1581	1576	1573	1572	1577	150
15°	1531	1525	1524	1523	1528	432
25°	1435	1429	1428	1428	1435	661
35°	1294	1288	1285	1285	1292	810
45°	1114	1106	1098	1098	1106	860
55°	898	888	876	878	885	802
65°	640	628	614	622	636	633
75°	356	346	340	303	288	374
85°	83	78	78	74	72	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1587.2	1580.3	1578.3	1576.3	1581.3
5°	1581.3	1576.3	1573.4	1572.4	1577.3
7.5°	1574.3	1568.4	1566.4	1564.4	1569.4
10°	1562.5	1556.5	1554.5	1553.5	1558.5
12.5°	1548.6	1541.6	1540.6	1539.6	1544.6
15°	1530.7	1524.8	1523.8	1522.8	1527.8
17.5°	1511.9	1505.9	1504.0	1503.0	1509.9
20°	1489.1	1483.1	1482.1	1481.2	1487.1
22.5°	1463.3	1457.4	1455.4	1456.4	1462.3
25°	1434.6	1428.6	1427.6	1427.6	1434.6
27.5°	1402.8	1396.9	1396.9	1396.9	1404.8
30°	1369.1	1364.2	1361.2	1362.2	1369.1
32.5°	1334.4	1326.5	1324.5	1325.5	1332.4
35°	1293.8	1287.8	1284.9	1284.9	1291.8
37.5°	1252.1	1246.2	1242.2	1242.2	1249.2
40°	1210.5	1201.6	1197.6	1195.6	1204.6
42.5°	1163.9	1157.0	1148.0	1148.0	1156.0
45°	1114.3	1106.4	1098.5	1098.5	1106.4
47.5°	1063.8	1055.8	1046.9	1046.9	1054.9
50°	1010.2	1002.3	992.4	992.4	1001.3
52.5°	955.7	946.8	935.9	934.9	943.8
55°	898.2	888.3	876.4	878.4	885.3
57.5°	839.7	826.8	814.9	814.9	825.8
60°	773.3	762.4	749.5	751.5	765.4
62.5°	709.8	696.0	683.1	688.0	699.9
65°	640.4	628.5	613.7	621.6	636.5
67.5°	572.0	559.2	547.3	557.2	564.1
70°	499.7	487.8	478.8	478.8	477.9
72.5°	427.3	416.4	414.4	395.6	383.7
75°	355.9	346.0	340.1	303.4	287.5
77.5°	281.6	278.6	259.7	221.1	216.1
80°	210.2	212.2	178.5	179.4	183.4
82.5°	144.7	141.8	133.8	127.9	125.9
85°	83.3	78.3	78.3	74.4	72.4
87.5°	27.8	30.7	30.7	30.7	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)