

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: P239020

Luminaire Tested: **24ENA-LD2-54-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239020
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-LD2-54-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: 5035.2 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

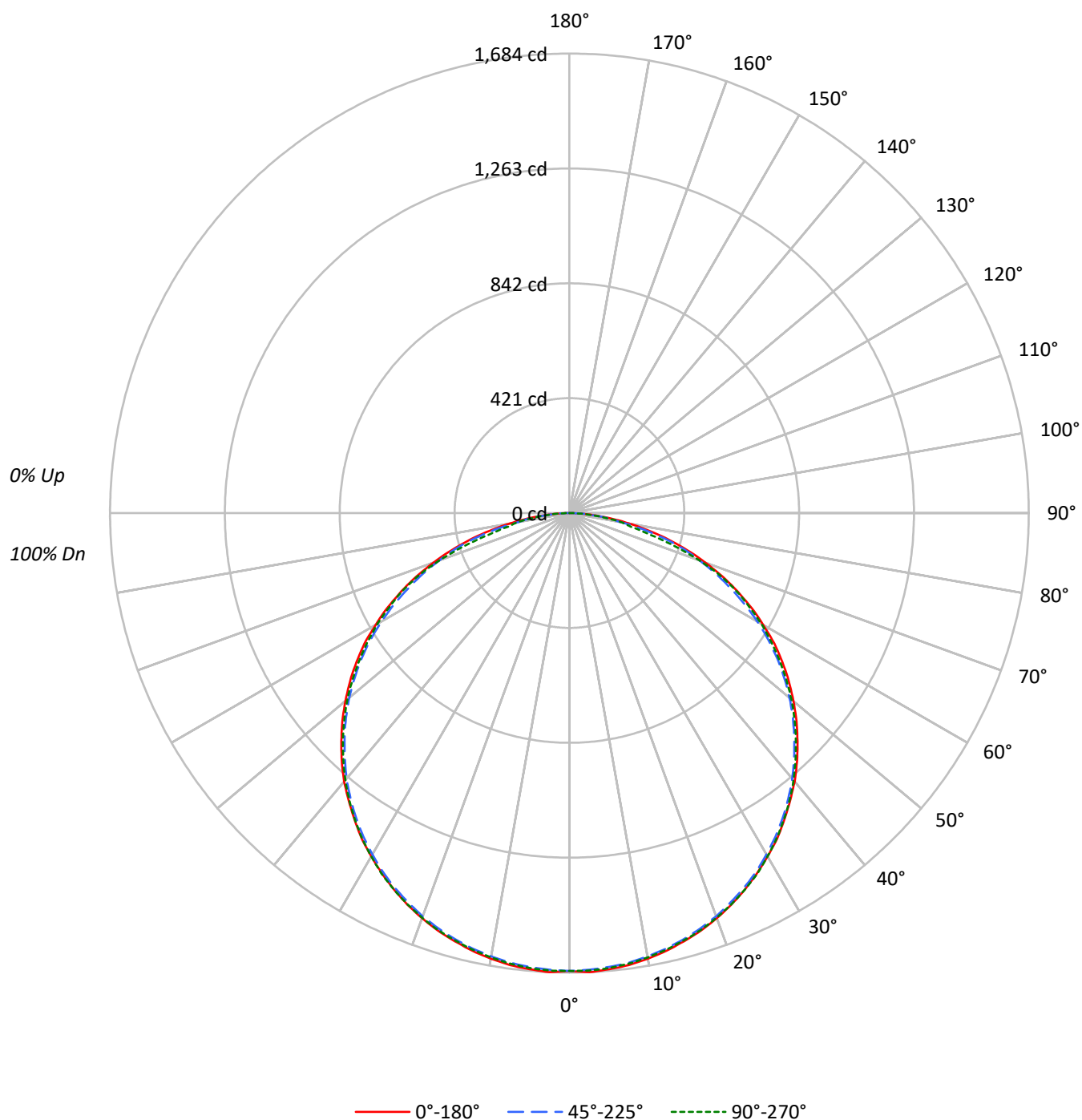
Input Watts (W): 43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2827	2827	2827
5°	2838	2824	2831
10°	2836	2822	2829
15°	2833	2820	2828
20°	2833	2820	2829
25°	2830	2816	2830
30°	2827	2810	2827
35°	2824	2804	2819
40°	2825	2795	2811
45°	2817	2777	2797
50°	2810	2760	2785
55°	2800	2732	2760
60°	2765	2680	2737
65°	2709	2596	2693
70°	2612	2503	2498
75°	2459	2349	1986
80°	2164	1838	1888
85°	1709	1606	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	3.2
10°-20°	457.1	9.1
20°-30°	699.5	13.9
30°-40°	855.0	17.0
40°-50°	903.5	17.9
50°-60°	837.1	16.6
60°-70°	655.8	13.0
70°-80°	370.8	7.4
80°-90°	97.6	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°	1315.5	26.1
0°-40°	2170.5	43.1
0°-60°	3911.0	77.7
0°-90°	5035.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1678	1673	1670	1669	1674	160
15°	1624	1618	1617	1616	1621	459
25°	1522	1516	1515	1515	1522	702
35°	1373	1367	1364	1364	1371	860
45°	1182	1174	1166	1166	1174	913
55°	953	943	930	932	940	851
65°	680	667	651	660	675	672
75°	378	367	361	322	305	397
85°	88	83	83	79	77	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.0	1678.0	1678.0	1678.0	1678.0
2.5°	1684.3	1677.0	1674.9	1672.8	1678.0
5°	1678.0	1672.8	1669.6	1668.6	1673.8
7.5°	1670.7	1664.3	1662.2	1660.1	1665.4
10°	1658.0	1651.7	1649.6	1648.6	1653.8
12.5°	1643.3	1635.9	1634.9	1633.8	1639.1
15°	1624.4	1618.1	1617.0	1616.0	1621.2
17.5°	1604.4	1598.1	1596.0	1594.9	1602.3
20°	1580.2	1573.9	1572.8	1571.8	1578.1
22.5°	1552.8	1546.5	1544.4	1545.5	1551.8
25°	1522.3	1516.0	1515.0	1515.0	1522.3
27.5°	1488.7	1482.3	1482.3	1482.3	1490.8
30°	1452.9	1447.6	1444.5	1445.5	1452.9
32.5°	1416.1	1407.6	1405.5	1406.6	1414.0
35°	1372.9	1366.6	1363.5	1363.5	1370.8
37.5°	1328.7	1322.4	1318.2	1318.2	1325.6
40°	1284.6	1275.1	1270.9	1268.8	1278.2
42.5°	1235.1	1227.7	1218.3	1218.3	1226.7
45°	1182.5	1174.1	1165.7	1165.7	1174.1
47.5°	1128.9	1120.4	1111.0	1111.0	1119.4
50°	1072.0	1063.6	1053.1	1053.1	1062.6
52.5°	1014.2	1004.7	993.1	992.1	1001.6
55°	953.2	942.6	930.0	932.1	939.5
57.5°	891.1	877.4	864.8	864.8	876.4
60°	820.6	809.0	795.4	797.5	812.2
62.5°	753.3	738.5	724.9	730.1	742.7
65°	679.6	667.0	651.2	659.6	675.4
67.5°	607.0	593.4	580.7	591.3	598.6
70°	530.2	517.6	508.1	508.1	507.1
72.5°	453.4	441.9	439.8	419.8	407.1
75°	377.7	367.2	360.9	321.9	305.1
77.5°	298.8	295.6	275.6	234.6	229.3
80°	223.0	225.1	189.4	190.4	194.6
82.5°	153.6	150.4	142.0	135.7	133.6
85°	88.4	83.1	83.1	78.9	76.8
87.5°	29.5	32.6	32.6	32.6	33.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)