

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: P238981

Luminaire Tested: **24EN-LD2-58-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238981
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: 24EN-LD2-58-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4892.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

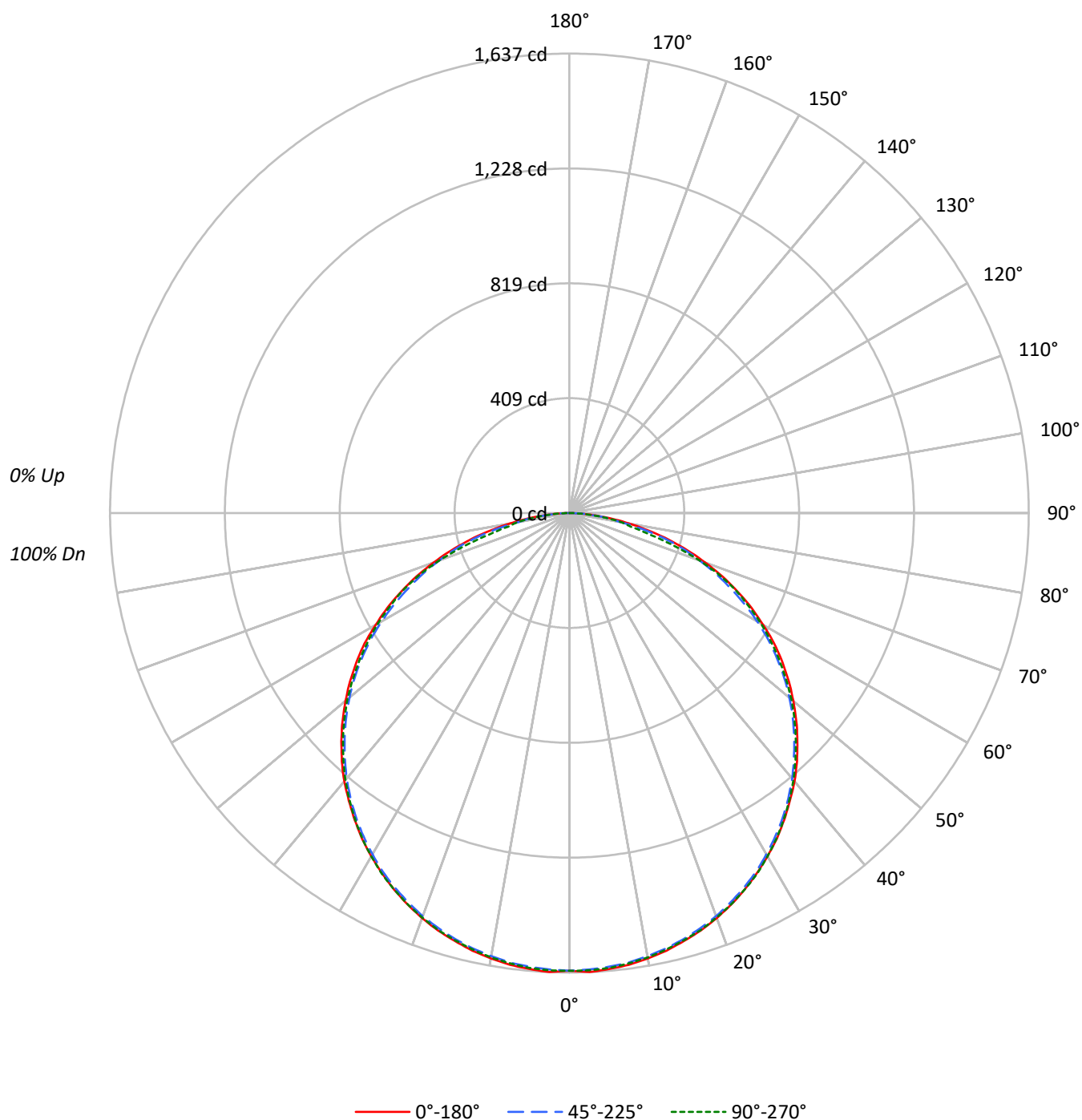
Input Watts (W): 47
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2497	2497	2497
5°	2507	2494	2501
10°	2506	2493	2499
15°	2503	2492	2498
20°	2503	2491	2499
25°	2500	2488	2500
30°	2497	2482	2497
35°	2494	2477	2491
40°	2496	2469	2483
45°	2489	2453	2471
50°	2482	2438	2460
55°	2473	2413	2438
60°	2443	2368	2418
65°	2393	2293	2379
70°	2307	2211	2207
75°	2172	2075	1755
80°	1911	1623	1668
85°	1510	1420	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.2
10°-20°	444.2	9.1
20°-30°	679.7	13.9
30°-40°	830.8	17.0
40°-50°	877.9	17.9
50°-60°	813.4	16.6
60°-70°	637.3	13.0
70°-80°	360.3	7.4
80°-90°	94.9	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°	1278.3	26.1
0°-40°	2109.1	43.1
0°-60°	3800.4	77.7
0°-90°	4892.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4892.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1631	1626	1622	1621	1626	155
15°	1578	1572	1571	1570	1575	446
25°	1479	1473	1472	1472	1479	682
35°	1334	1328	1325	1325	1332	835
45°	1149	1141	1133	1133	1141	887
55°	926	916	904	906	913	827
65°	660	648	633	641	656	653
75°	367	357	351	313	296	386
85°	86	81	81	77	75	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.6	1630.6	1630.6	1630.6	1630.6
2.5°	1636.7	1629.6	1627.5	1625.5	1630.6
5°	1630.6	1625.5	1622.4	1621.4	1626.5
7.5°	1623.4	1617.3	1615.2	1613.2	1618.3
10°	1611.2	1605.0	1603.0	1602.0	1607.1
12.5°	1596.8	1589.7	1588.7	1587.6	1592.8
15°	1578.4	1572.3	1571.3	1570.3	1575.4
17.5°	1559.0	1552.9	1550.8	1549.8	1557.0
20°	1535.5	1529.4	1528.3	1527.3	1533.5
22.5°	1508.9	1502.8	1500.7	1501.8	1507.9
25°	1479.3	1473.1	1472.1	1472.1	1479.3
27.5°	1446.6	1440.4	1440.4	1440.4	1448.6
30°	1411.8	1406.7	1403.6	1404.7	1411.8
32.5°	1376.0	1367.8	1365.8	1366.8	1374.0
35°	1334.1	1328.0	1324.9	1324.9	1332.1
37.5°	1291.2	1285.0	1281.0	1281.0	1288.1
40°	1248.2	1239.0	1234.9	1232.9	1242.1
42.5°	1200.2	1193.0	1183.8	1183.8	1192.0
45°	1149.1	1140.9	1132.7	1132.7	1140.9
47.5°	1096.9	1088.8	1079.6	1079.6	1087.7
50°	1041.7	1033.6	1023.3	1023.3	1032.5
52.5°	985.5	976.3	965.1	964.0	973.2
55°	926.2	916.0	903.7	905.8	912.9
57.5°	865.9	852.6	840.3	840.3	851.6
60°	797.4	786.2	772.9	774.9	789.2
62.5°	732.0	717.7	704.4	709.5	721.7
65°	660.4	648.1	632.8	641.0	656.3
67.5°	589.9	576.6	564.3	574.5	581.7
70°	515.2	503.0	493.8	493.8	492.8
72.5°	440.6	429.4	427.3	407.9	395.6
75°	367.0	356.8	350.7	312.8	296.5
77.5°	290.3	287.3	267.8	228.0	222.9
80°	216.7	218.8	184.0	185.0	189.1
82.5°	149.3	146.2	138.0	131.9	129.8
85°	85.9	80.8	80.8	76.7	74.6
87.5°	28.6	31.7	31.7	31.7	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)