

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: P238978

Luminaire Tested: **24EN-LD2-54-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238978
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-LD2-54-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4658.0 lumens
Efficiency: N/A
Efficacy: 108.3 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

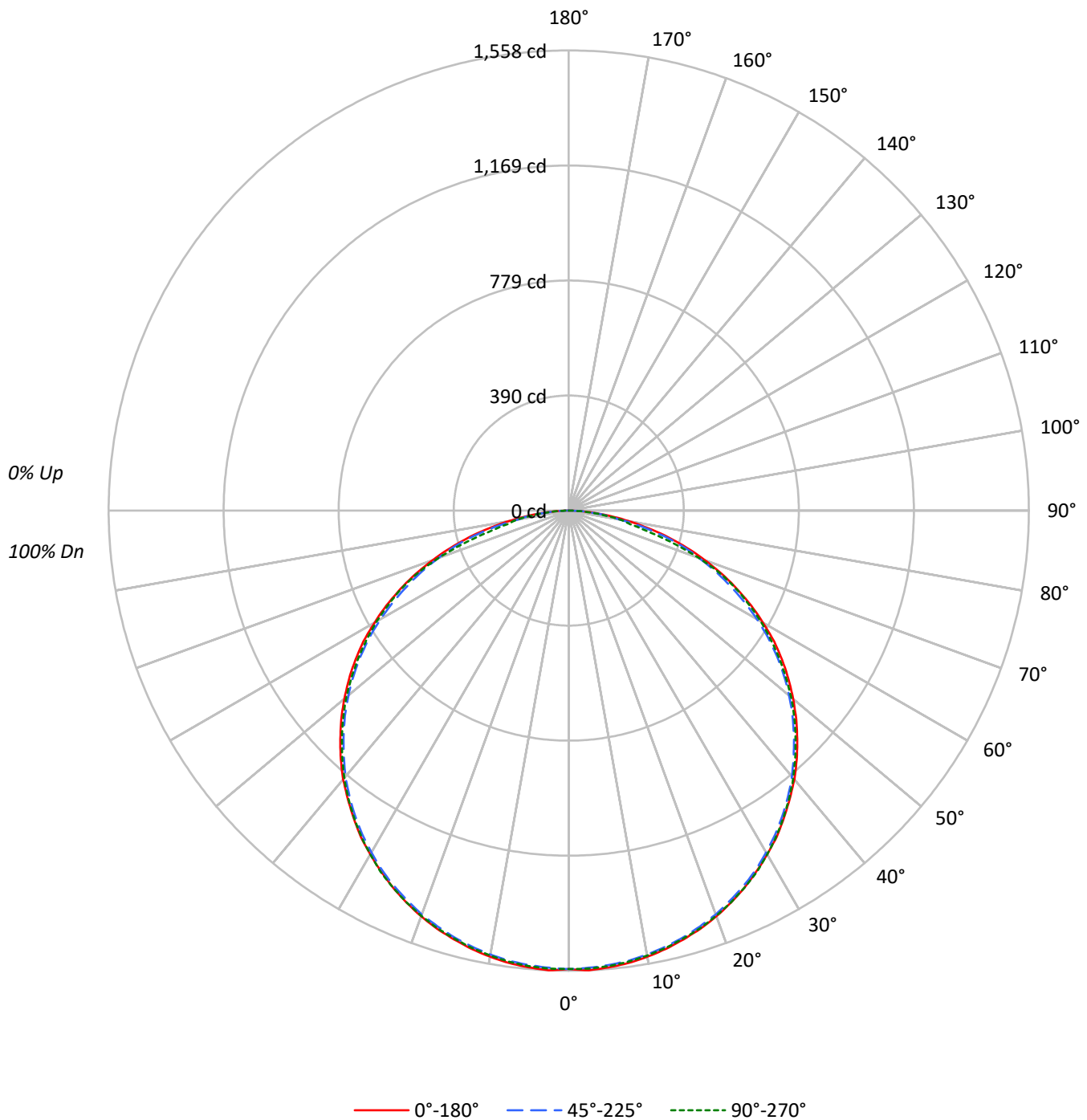
Input Watts (W): 43
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2378	2378	2378
5°	2387	2375	2381
10°	2385	2373	2379
15°	2383	2372	2378
20°	2383	2372	2380
25°	2380	2368	2380
30°	2377	2363	2377
35°	2375	2358	2371
40°	2376	2351	2364
45°	2369	2336	2353
50°	2363	2321	2342
55°	2355	2297	2321
60°	2325	2254	2301
65°	2278	2183	2264
70°	2197	2105	2101
75°	2068	1975	1670
80°	1820	1545	1589
85°	1438	1351	1248



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.2
10°-20°	422.9	9.1
20°-30°	647.1	13.9
30°-40°	790.9	17.0
40°-50°	835.8	17.9
50°-60°	774.4	16.6
60°-70°	606.7	13.0
70°-80°	343.0	7.4
80°-90°	90.3	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°	1217.0	26.1
0°-40°	2007.9	43.1
0°-60°	3618.0	77.7
0°-90°	4658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1552	1548	1544	1544	1548	148
15°	1503	1497	1496	1495	1500	425
25°	1408	1402	1402	1402	1408	649
35°	1270	1264	1261	1261	1268	795
45°	1094	1086	1078	1078	1086	844
55°	882	872	860	862	869	787
65°	629	617	602	610	625	622
75°	349	340	334	298	282	368
85°	82	77	77	73	71	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1558.2	1551.4	1549.4	1547.5	1552.3
5°	1552.3	1547.5	1544.5	1543.6	1548.4
7.5°	1545.5	1539.7	1537.7	1535.8	1540.6
10°	1533.8	1528.0	1526.0	1525.1	1529.9
12.5°	1520.2	1513.4	1512.4	1511.4	1516.3
15°	1502.7	1496.8	1495.9	1494.9	1499.8
17.5°	1484.2	1478.4	1476.4	1475.4	1482.2
20°	1461.8	1456.0	1455.0	1454.0	1459.9
22.5°	1436.5	1430.7	1428.7	1429.7	1435.5
25°	1408.3	1402.4	1401.5	1401.5	1408.3
27.5°	1377.1	1371.3	1371.3	1371.3	1379.1
30°	1344.0	1339.2	1336.3	1337.2	1344.0
32.5°	1310.0	1302.2	1300.3	1301.2	1308.0
35°	1270.1	1264.2	1261.3	1261.3	1268.1
37.5°	1229.2	1223.4	1219.5	1219.5	1226.3
40°	1188.3	1179.6	1175.7	1173.7	1182.5
42.5°	1142.6	1135.8	1127.0	1127.0	1134.8
45°	1093.9	1086.1	1078.4	1078.4	1086.1
47.5°	1044.3	1036.5	1027.7	1027.7	1035.5
50°	991.7	983.9	974.2	974.2	983.0
52.5°	938.2	929.4	918.7	917.8	926.5
55°	881.8	872.0	860.3	862.3	869.1
57.5°	824.3	811.7	800.0	800.0	810.7
60°	759.1	748.4	735.8	737.7	751.3
62.5°	696.8	683.2	670.6	675.4	687.1
65°	628.7	617.0	602.4	610.2	624.8
67.5°	561.6	548.9	537.2	547.0	553.8
70°	490.5	478.8	470.1	470.1	469.1
72.5°	419.5	408.8	406.8	388.3	376.6
75°	349.4	339.7	333.8	297.8	282.2
77.5°	276.4	273.5	255.0	217.0	212.2
80°	206.3	208.3	175.2	176.2	180.1
82.5°	142.1	139.2	131.4	125.5	123.6
85°	81.8	76.9	76.9	73.0	71.0
87.5°	27.3	30.2	30.2	30.2	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)