

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: P238962

Luminaire Tested: **24EN-LD2-34-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238962
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-LD2-34-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3108.3 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

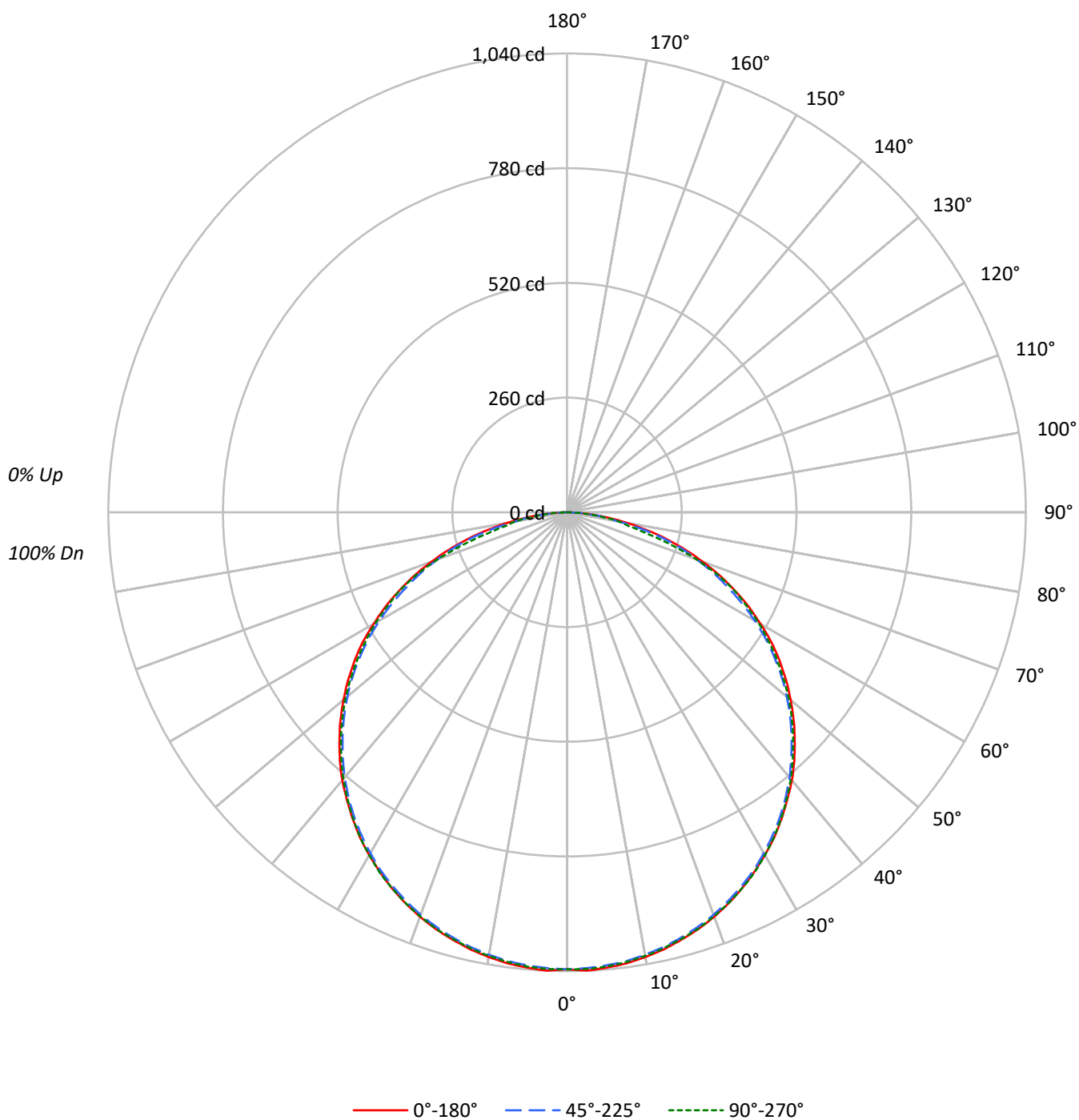
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1587	1587	1587
5°	1593	1585	1589
10°	1592	1584	1588
15°	1590	1583	1587
20°	1590	1582	1588
25°	1588	1580	1588
30°	1586	1577	1586
35°	1585	1574	1582
40°	1586	1569	1578
45°	1581	1559	1570
50°	1577	1549	1563
55°	1571	1533	1549
60°	1552	1504	1536
65°	1520	1457	1511
70°	1466	1405	1402
75°	1380	1318	1114
80°	1215	1031	1059
85°	960	902	833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	3.2
10°-20°	282.2	9.1
20°-30°	431.8	13.9
30°-40°	527.8	17.0
40°-50°	557.7	17.9
50°-60°	516.7	16.6
60°-70°	404.8	13.0
70°-80°	228.9	7.4
80°-90°	60.3	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°	812.1	26.1
0°-40°	1339.9	43.1
0°-60°	2414.4	77.7
0°-90°	3108.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1036	1033	1031	1030	1033	99
15°	1003	999	998	998	1001	283
25°	940	936	935	935	940	433
35°	848	844	842	842	846	531
45°	730	725	720	720	725	563
55°	588	582	574	575	580	525
65°	420	412	402	407	417	415
75°	233	227	223	199	188	245
85°	55	51	51	49	47	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1035.9	1035.9	1035.9	1035.9	1035.9
2.5°	1039.8	1035.2	1033.9	1032.6	1035.9
5°	1035.9	1032.6	1030.7	1030.0	1033.3
7.5°	1031.3	1027.4	1026.1	1024.8	1028.1
10°	1023.5	1019.6	1018.3	1017.7	1020.9
12.5°	1014.4	1009.9	1009.3	1008.6	1011.9
15°	1002.8	998.9	998.2	997.6	1000.8
17.5°	990.4	986.5	985.2	984.6	989.1
20°	975.5	971.6	970.9	970.3	974.2
22.5°	958.6	954.7	953.4	954.1	957.9
25°	939.8	935.9	935.2	935.2	939.8
27.5°	919.0	915.1	915.1	915.1	920.3
30°	896.9	893.7	891.7	892.4	896.9
32.5°	874.2	869.0	867.7	868.3	872.9
35°	847.5	843.6	841.7	841.7	846.2
37.5°	820.3	816.4	813.8	813.8	818.3
40°	793.0	787.1	784.5	783.2	789.1
42.5°	762.5	757.9	752.1	752.1	757.3
45°	730.0	724.8	719.6	719.6	724.8
47.5°	696.9	691.7	685.8	685.8	691.0
50°	661.8	656.6	650.1	650.1	656.0
52.5°	626.1	620.2	613.1	612.4	618.3
55°	588.4	581.9	574.1	575.4	580.0
57.5°	550.1	541.6	533.9	533.9	541.0
60°	506.6	499.4	491.0	492.3	501.4
62.5°	465.0	455.9	447.5	450.7	458.5
65°	419.5	411.8	402.0	407.2	417.0
67.5°	374.7	366.3	358.5	365.0	369.5
70°	327.3	319.5	313.7	313.7	313.0
72.5°	279.9	272.8	271.5	259.1	251.3
75°	233.2	226.7	222.8	198.7	188.3
77.5°	184.4	182.5	170.2	144.8	141.6
80°	137.7	139.0	116.9	117.6	120.1
82.5°	94.8	92.9	87.7	83.8	82.5
85°	54.6	51.3	51.3	48.7	47.4
87.5°	18.2	20.1	20.1	20.1	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)