

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: P238754

Luminaire Tested: **14EN-LD2-25-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-25-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2507.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

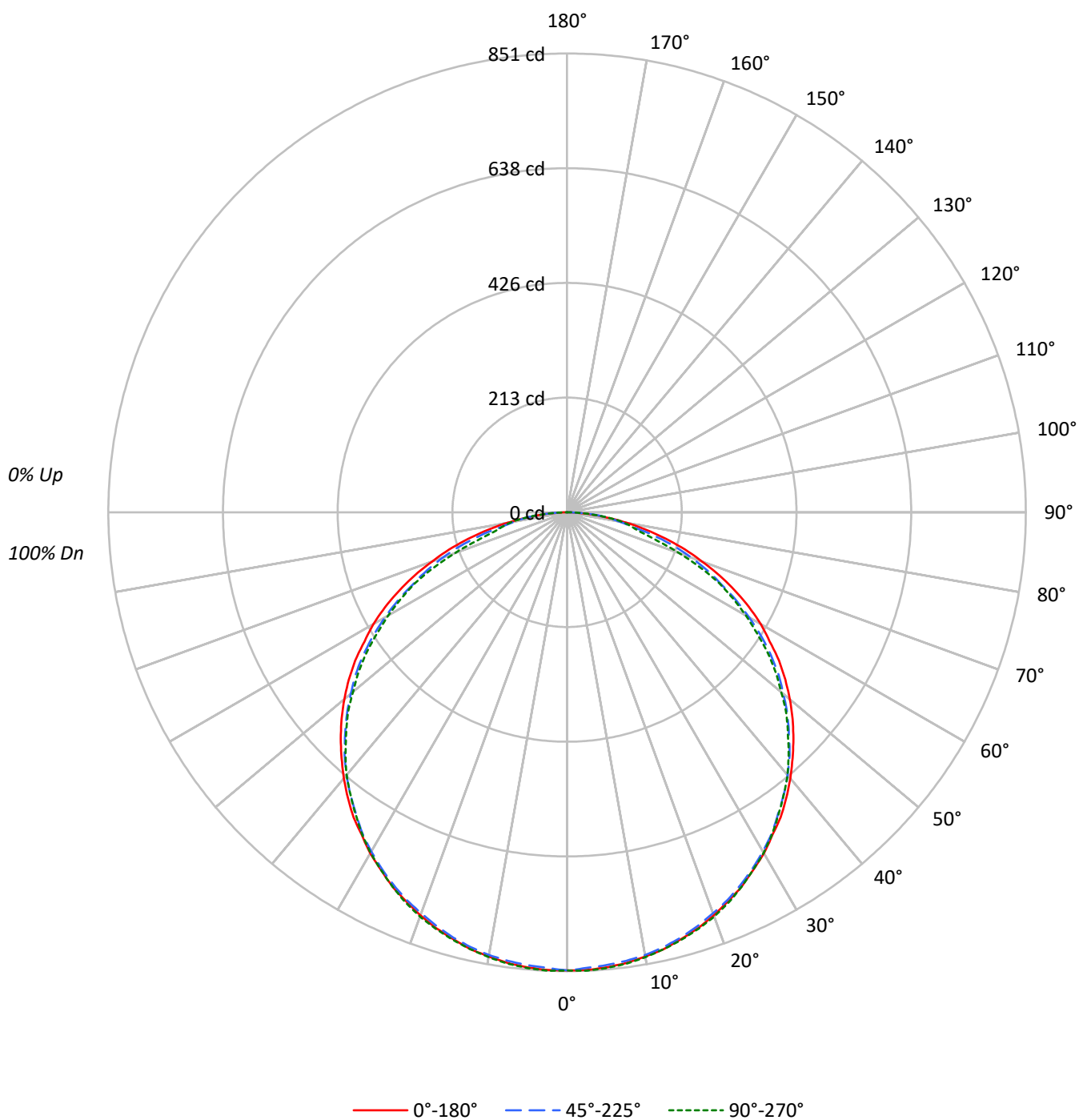
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	63		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	69	56	47	40	68	55	46	40		53	46	40		51	45	39		50	44	39
7	64	51	42	36	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	54	42	34	28		41	33	28		40	33	28		38	32	28
10	52	39	31	26	51	39	31	26		38	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2386	2386	2386
5°	2387	2376	2391
10°	2385	2377	2389
15°	2381	2374	2385
20°	2377	2365	2384
25°	2374	2361	2374
30°	2368	2355	2364
35°	2367	2340	2344
40°	2361	2332	2332
45°	2358	2311	2300
50°	2357	2287	2264
55°	2349	2258	2226
60°	2330	2189	2151
65°	2281	2096	2070
70°	2187	2013	1818
75°	2056	1812	1524
80°	1822	1565	1714
85°	1408	1624	1537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.2
10°-20°	231.1	9.2
20°-30°	352.2	14.0
30°-40°	428.9	17.1
40°-50°	451.0	18.0
50°-60°	414.0	16.5
60°-70°	318.0	12.7
70°-80°	177.5	7.1
80°-90°	53.9	2.1
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°	663.7	26.5
0°-40°	1092.6	43.6
0°-60°	1957.6	78.1
0°-90°	2507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	847	847	843	847	848	81
15°	819	819	816	819	820	231
25°	766	764	762	765	766	353
35°	691	688	683	684	684	432
45°	594	590	582	579	579	458
55°	480	476	461	453	455	428
65°	343	334	316	312	312	339
75°	190	180	167	144	140	200
85°	44	45	50	49	48	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	849.6	849.6	849.6	849.6	849.6
2.5°	849.6	849.6	845.7	849.6	851.0
5°	847.0	847.0	843.0	847.0	848.3
7.5°	843.0	843.0	839.0	841.7	844.3
10°	836.4	836.4	833.7	836.4	837.7
12.5°	829.8	828.4	825.8	828.4	829.8
15°	819.1	819.1	816.5	819.1	820.5
17.5°	808.5	807.2	804.6	808.5	809.9
20°	795.3	794.0	791.3	795.3	797.9
22.5°	780.7	779.4	778.1	782.0	783.4
25°	766.1	763.5	762.2	764.8	766.1
27.5°	747.6	746.2	744.9	746.2	747.6
30°	730.3	727.7	726.4	726.4	729.0
32.5°	709.1	707.8	706.5	707.8	707.8
35°	690.6	687.9	682.6	683.9	683.9
37.5°	668.0	664.1	660.1	660.1	660.1
40°	644.2	641.5	636.2	634.9	636.2
42.5°	619.0	616.3	611.0	607.1	608.4
45°	593.8	589.8	581.9	579.2	579.2
47.5°	567.3	563.3	554.1	550.1	551.4
50°	539.5	534.2	523.6	518.3	518.3
52.5°	510.3	505.0	494.4	487.8	487.8
55°	479.8	475.8	461.3	453.3	454.6
57.5°	445.4	441.4	426.8	417.5	417.5
60°	414.9	406.9	389.7	383.1	383.1
62.5°	380.4	371.1	353.9	346.0	347.3
65°	343.3	334.0	315.5	311.5	311.5
67.5°	306.2	298.2	281.0	274.4	267.7
70°	266.4	258.5	245.2	229.3	221.4
72.5°	229.3	220.0	208.1	184.2	176.3
75°	189.5	180.3	167.0	144.5	140.5
77.5°	151.1	143.2	124.6	119.3	121.9
80°	112.7	110.0	96.8	102.1	106.0
82.5°	75.6	74.2	76.9	79.5	79.5
85°	43.7	45.1	50.4	49.0	47.7
87.5°	18.6	22.5	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)