

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: P184038

Luminaire Tested: **12EN-LD2-17-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34514)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-17-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1772.0 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

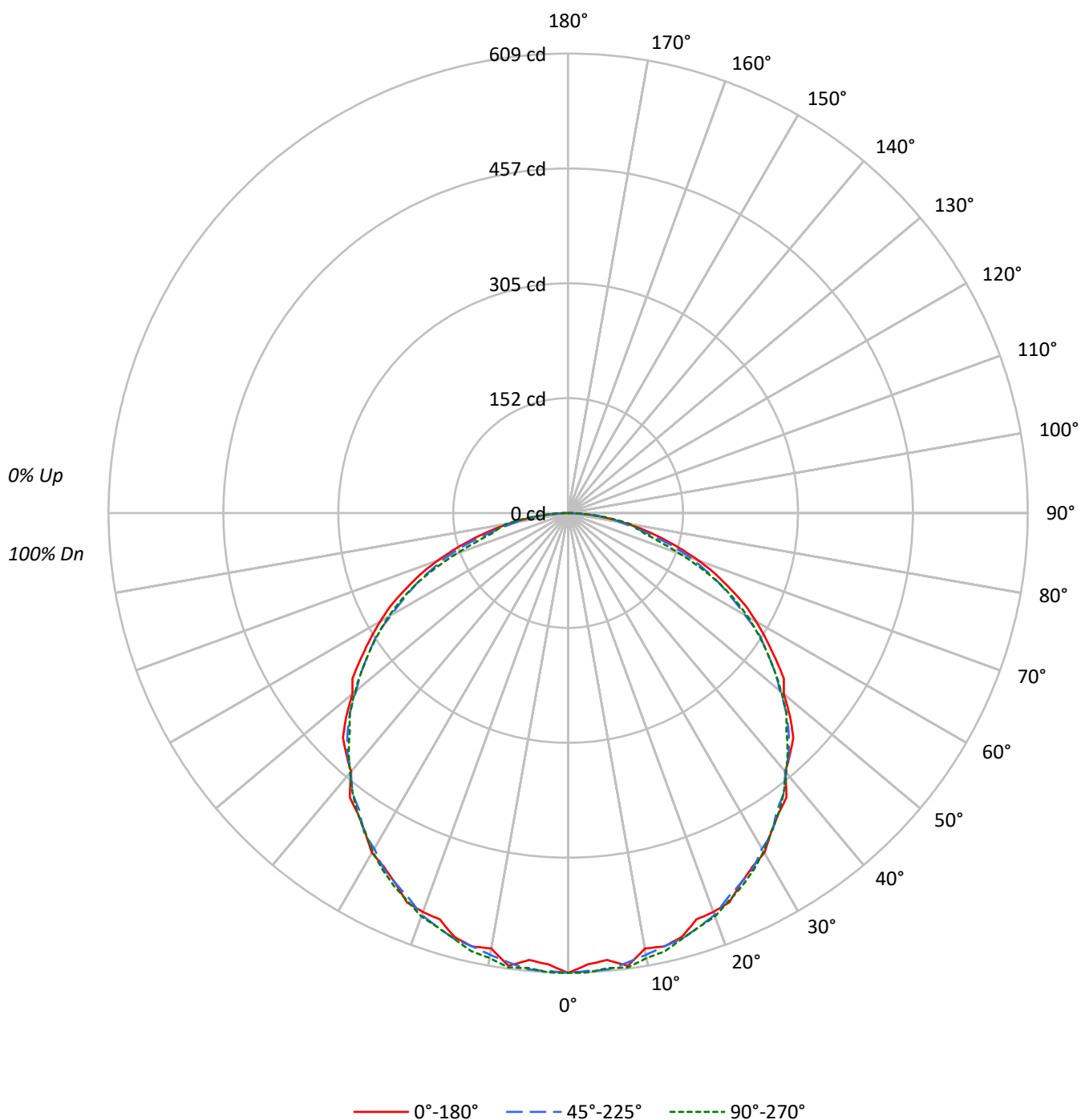
Input Watts (W): 15.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	69	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	52	46			57	50	45			55
6	70	56	47	40	68	55	47	40		53	46	40			52	45	40			50
7	64	51	42	36	63	50	42	36		48	41	35			47	40	35			46
8	60	46	38	32	58	46	37	32		44	37	31			43	36	31			42
9	56	42	34	29	55	42	34	28		41	33	28			40	33	28			39
10	53	39	31	26	51	39	31	26		38	31	26			37	30	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3280	3280	3280
5°	3212	3281	3270
10°	3202	3249	3272
15°	3241	3253	3253
20°	3222	3246	3259
25°	3214	3214	3239
30°	3231	3192	3218
35°	3192	3164	3192
40°	3144	3144	3159
45°	3211	3146	3114
50°	3122	3069	3086
55°	3140	3019	3019
60°	3097	2913	2959
65°	3012	2822	2822
70°	2884	2716	2482
75°	2660	2393	2171
80°	2377	2179	2576
85°	1976	2235	2106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.3
10°-20°	164.5	9.3
20°-30°	250.5	14.1
30°-40°	303.4	17.1
40°-50°	318.3	18.0
50°-60°	291.1	16.4
60°-70°	222.5	12.6
70°-80°	125.1	7.1
80°-90°	39.0	2.2
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°	472.6	26.7
0°-40°	776.1	43.8
0°-60°	1385.4	78.2
0°-90°	1772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	594	605	607	612	605	57
15°	582	582	584	584	584	163
25°	541	543	541	546	546	250
35°	486	484	482	486	486	305
45°	422	416	413	409	409	322
55°	335	330	322	322	322	299
65°	236	230	222	220	222	234
75°	128	124	115	106	104	136
85°	32	32	36	34	34	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.4	609.4	609.4	609.4	609.4
2.5°	598.8	607.3	607.3	611.6	609.4
5°	594.5	605.2	607.3	611.6	605.2
7.5°	605.2	603.1	600.9	605.2	607.3
10°	586.0	594.5	594.5	605.2	598.8
12.5°	588.1	590.3	588.1	588.1	594.5
15°	581.7	581.7	583.9	583.9	583.9
17.5°	564.7	573.2	575.3	577.5	575.3
20°	562.6	564.7	566.8	569.0	569.0
22.5°	558.3	554.0	551.9	560.4	556.2
25°	541.3	543.4	541.3	545.5	545.5
27.5°	528.5	528.5	530.6	528.5	532.7
30°	519.9	517.8	513.6	517.8	517.8
32.5°	500.8	502.9	502.9	500.8	500.8
35°	485.9	483.7	481.6	485.9	485.9
37.5°	475.2	464.5	468.8	466.7	468.8
40°	447.5	453.9	447.5	447.5	449.6
42.5°	434.7	432.6	432.6	430.4	430.4
45°	421.9	415.5	413.4	409.1	409.1
47.5°	398.5	398.5	392.1	387.8	392.1
50°	372.9	375.0	366.5	364.4	368.6
52.5°	360.1	353.7	345.2	347.3	345.2
55°	334.6	330.3	321.8	321.8	321.8
57.5°	311.1	309.0	300.5	298.3	298.3
60°	287.7	283.4	270.6	272.8	274.9
62.5°	264.2	257.8	245.1	249.3	249.3
65°	236.5	230.1	221.6	219.5	221.6
67.5°	211.0	202.4	196.0	193.9	189.7
70°	183.3	179.0	172.6	159.8	157.7
72.5°	155.6	149.2	144.9	130.0	127.9
75°	127.9	123.6	115.1	106.5	104.4
77.5°	102.3	100.2	89.5	89.5	93.8
80°	76.7	74.6	70.3	78.8	83.1
82.5°	53.3	51.1	57.5	59.7	59.7
85°	32.0	32.0	36.2	34.1	34.1
87.5°	12.8	14.9	14.9	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)