

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: P184033

Luminaire Tested: **12EN-LD2-13-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184033
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-LD2-13-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: 1345.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

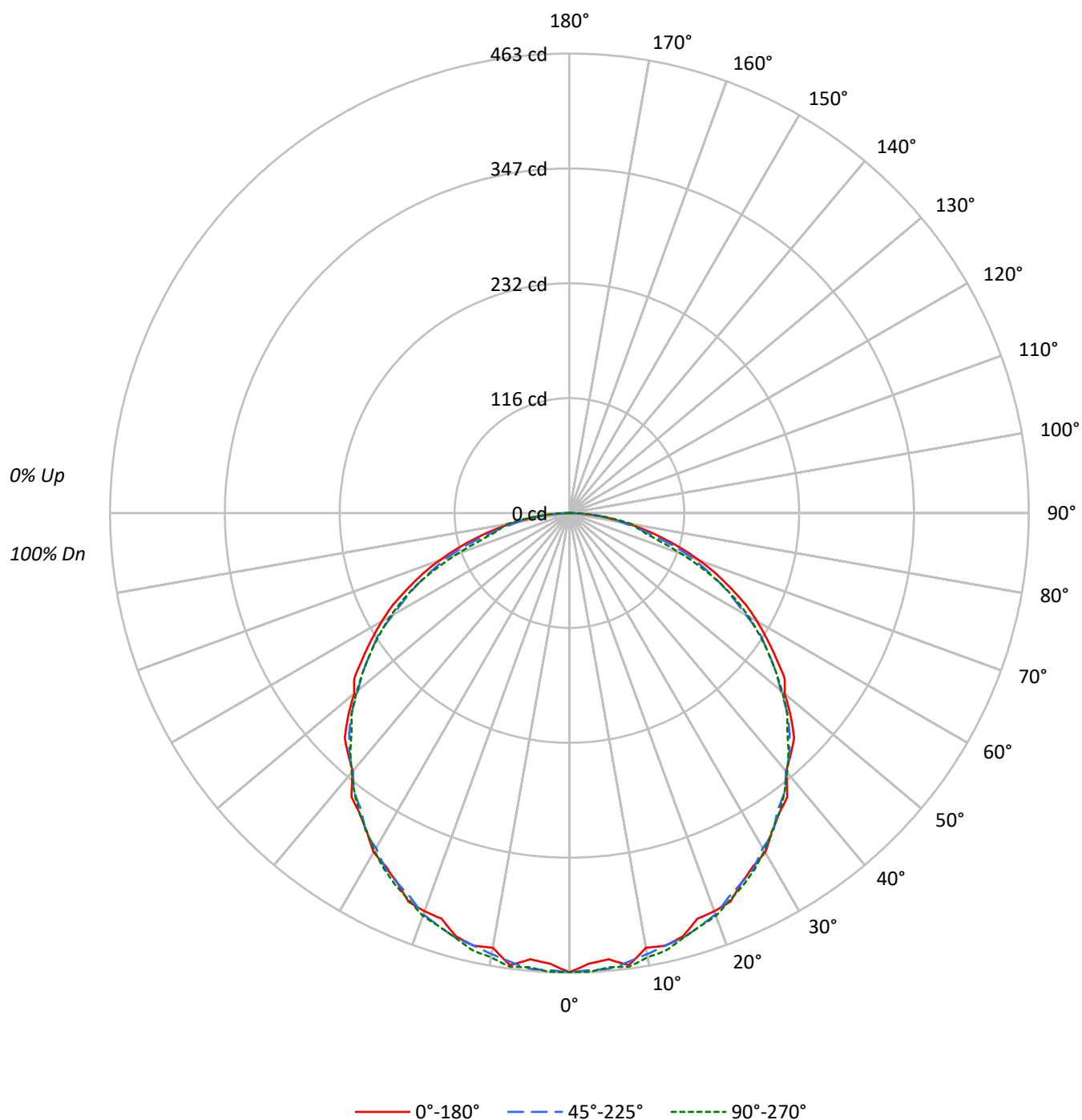
Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2490	2490	2490
5°	2438	2491	2482
10°	2431	2466	2484
15°	2461	2469	2469
20°	2446	2464	2474
25°	2439	2439	2459
30°	2453	2422	2442
35°	2423	2401	2423
40°	2387	2387	2398
45°	2438	2388	2363
50°	2370	2329	2343
55°	2382	2291	2291
60°	2351	2211	2245
65°	2286	2142	2142
70°	2189	2061	1884
75°	2017	1815	1649
80°	1804	1655	1956
85°	1501	1698	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	3.3
10°-20°	124.9	9.3
20°-30°	190.1	14.1
30°-40°	230.3	17.1
40°-50°	241.6	18.0
50°-60°	220.9	16.4
60°-70°	168.9	12.6
70°-80°	94.9	7.1
80°-90°	29.6	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°	358.7	26.7
0°-40°	589.1	43.8
0°-60°	1051.6	78.2
0°-90°	1345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	451	459	461	464	459	43
15°	442	442	443	443	443	124
25°	411	412	411	414	414	190
35°	369	367	366	369	369	231
45°	320	315	314	310	310	244
55°	254	251	244	244	244	227
65°	180	175	168	167	168	178
75°	97	94	87	81	79	103
85°	24	24	28	26	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	462.6	462.6	462.6	462.6	462.6
2.5°	454.5	461.0	461.0	464.2	462.6
5°	451.3	459.4	461.0	464.2	459.4
7.5°	459.4	457.7	456.1	459.4	461.0
10°	444.8	451.3	451.3	459.4	454.5
12.5°	446.4	448.0	446.4	446.4	451.3
15°	441.6	441.6	443.2	443.2	443.2
17.5°	428.6	435.1	436.7	438.3	436.7
20°	427.0	428.6	430.2	431.9	431.9
22.5°	423.8	420.5	418.9	425.4	422.1
25°	410.8	412.4	410.8	414.1	414.1
27.5°	401.1	401.1	402.7	401.1	404.4
30°	394.7	393.0	389.8	393.0	393.0
32.5°	380.1	381.7	381.7	380.1	380.1
35°	368.8	367.2	365.5	368.8	368.8
37.5°	360.7	352.6	355.8	354.2	355.8
40°	339.7	344.5	339.7	339.7	341.3
42.5°	330.0	328.3	328.3	326.7	326.7
45°	320.3	315.4	313.8	310.5	310.5
47.5°	302.5	302.5	297.6	294.4	297.6
50°	283.1	284.7	278.2	276.6	279.8
52.5°	273.3	268.5	262.0	263.6	262.0
55°	253.9	250.7	244.2	244.2	244.2
57.5°	236.1	234.5	228.1	226.4	226.4
60°	218.4	215.1	205.4	207.0	208.6
62.5°	200.6	195.7	186.0	189.2	189.2
65°	179.5	174.7	168.2	166.6	168.2
67.5°	160.1	153.7	148.8	147.2	144.0
70°	139.1	135.9	131.0	121.3	119.7
72.5°	118.1	113.2	110.0	98.7	97.0
75°	97.0	93.8	87.3	80.9	79.3
77.5°	77.6	76.0	67.9	67.9	71.2
80°	58.2	56.6	53.4	59.8	63.1
82.5°	40.4	38.8	43.7	45.3	45.3
85°	24.3	24.3	27.5	25.9	25.9
87.5°	9.7	11.3	11.3	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)