

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: P184039

Luminaire Tested: **12EN-LD2-17-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184039
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-L840-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1807.5 lumens
Efficiency: N/A
Efficacy: 115.1 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

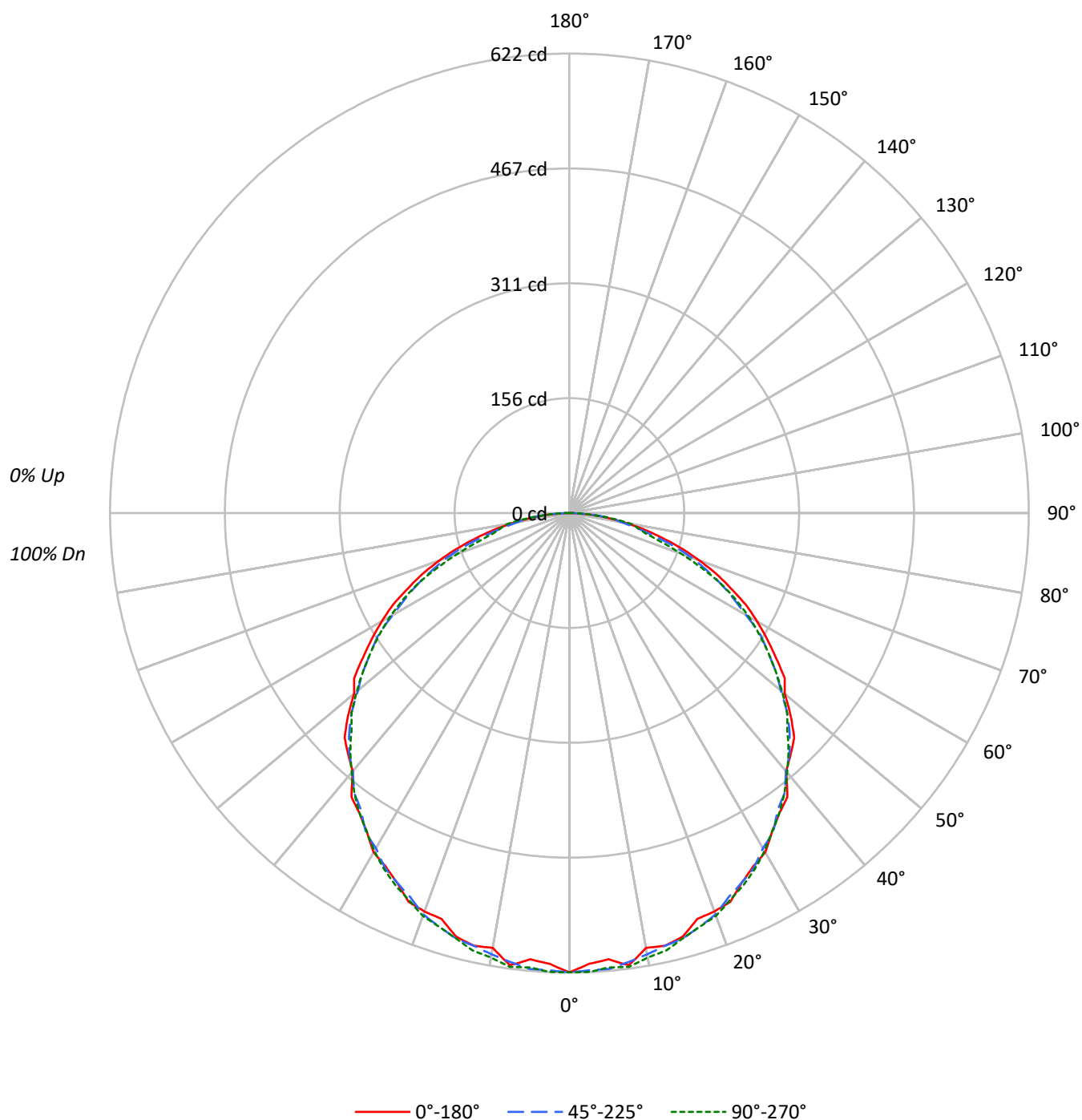
Input Watts (W): 15.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83	
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49	
5	75	62	53	46	73	61	53	46	59	52	46	57	50	45	55	49	45	43	
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37	
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29	
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26	
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3345	3345	3345
5°	3276	3347	3335
10°	3266	3314	3338
15°	3306	3319	3319
20°	3286	3312	3324
25°	3279	3279	3304
30°	3296	3255	3283
35°	3256	3227	3256
40°	3207	3207	3222
45°	3276	3210	3176
50°	3185	3130	3148
55°	3202	3080	3080
60°	3158	2971	3018
65°	3073	2878	2878
70°	2941	2771	2530
75°	2712	2441	2215
80°	2424	2222	2628
85°	2013	2285	2149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	3.3
10°-20°	167.8	9.3
20°-30°	255.5	14.1
30°-40°	309.5	17.1
40°-50°	324.6	18.0
50°-60°	296.9	16.4
60°-70°	226.9	12.6
70°-80°	127.6	7.1
80°-90°	39.8	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°	482.1	26.7
0°-40°	791.6	43.8
0°-60°	1413.1	78.2
0°-90°	1807.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1807.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	606	617	620	624	617	58
15°	593	593	596	596	596	166
25°	552	554	552	556	556	255
35°	496	493	491	496	496	311
45°	430	424	422	417	417	328
55°	341	337	328	328	328	305
65°	241	235	226	224	226	239
75°	130	126	117	109	106	139
85°	33	33	37	35	35	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	621.6	621.6	621.6	621.6	621.6
2.5°	610.8	619.5	619.5	623.8	621.6
5°	606.4	617.3	619.5	623.8	617.3
7.5°	617.3	615.1	612.9	617.3	619.5
10°	597.7	606.4	606.4	617.3	610.8
12.5°	599.9	602.1	599.9	599.9	606.4
15°	593.4	593.4	595.6	595.6	595.6
17.5°	576.0	584.7	586.9	589.0	586.9
20°	573.8	576.0	578.2	580.3	580.3
22.5°	569.5	565.1	562.9	571.6	567.3
25°	552.1	554.3	552.1	556.4	556.4
27.5°	539.0	539.0	541.2	539.0	543.4
30°	530.3	528.2	523.8	528.2	528.2
32.5°	510.8	513.0	513.0	510.8	510.8
35°	495.6	493.4	491.2	495.6	495.6
37.5°	484.7	473.8	478.2	476.0	478.2
40°	456.4	463.0	456.4	456.4	458.6
42.5°	443.4	441.2	441.2	439.1	439.1
45°	430.4	423.8	421.7	417.3	417.3
47.5°	406.5	406.5	399.9	395.6	399.9
50°	380.4	382.5	373.8	371.7	376.0
52.5°	367.3	360.8	352.1	354.3	352.1
55°	341.2	336.9	328.2	328.2	328.2
57.5°	317.3	315.2	306.5	304.3	304.3
60°	293.4	289.1	276.0	278.2	280.4
62.5°	269.5	263.0	250.0	254.3	254.3
65°	241.3	234.7	226.0	223.9	226.0
67.5°	215.2	206.5	200.0	197.8	193.4
70°	186.9	182.6	176.1	163.0	160.8
72.5°	158.7	152.1	147.8	132.6	130.4
75°	130.4	126.1	117.4	108.7	106.5
77.5°	104.3	102.2	91.3	91.3	95.6
80°	78.2	76.1	71.7	80.4	84.8
82.5°	54.3	52.2	58.7	60.9	60.9
85°	32.6	32.6	37.0	34.8	34.8
87.5°	13.0	15.2	15.2	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)