

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: P184040

Luminaire Tested: **12EN-LD2-17-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184040
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-L850-CD1-U
Description: METALUX ENCOUNTER 1X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1966.9 lumens
Efficiency: N/A
Efficacy: 125.3 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

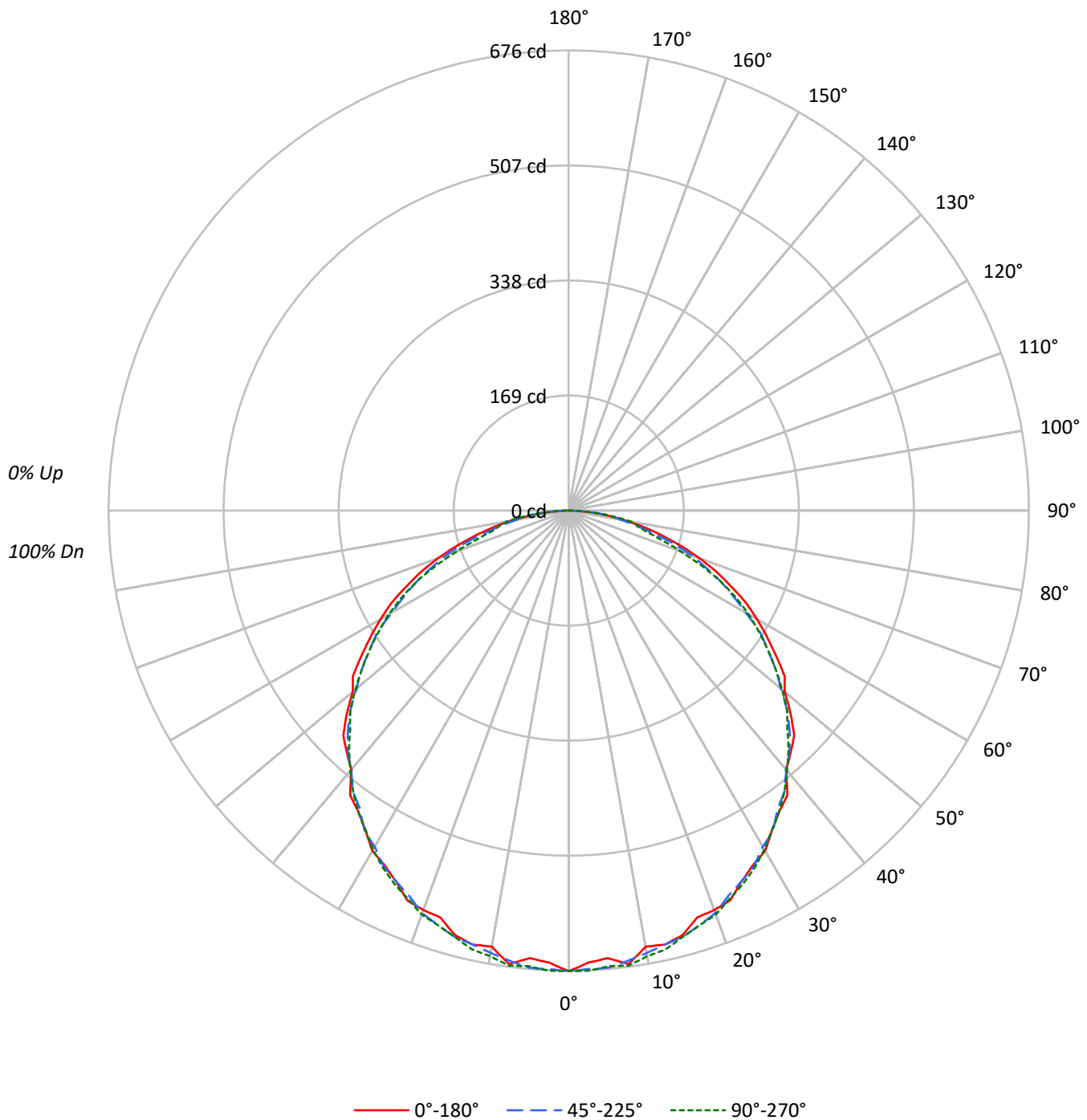
Input Watts (W): 15.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	3641	3641	3641
5°	3565	3642	3629
10°	3555	3606	3633
15°	3598	3611	3611
20°	3576	3604	3617
25°	3568	3568	3596
30°	3586	3542	3572
35°	3543	3512	3543
40°	3490	3490	3507
45°	3564	3493	3456
50°	3466	3406	3426
55°	3485	3352	3352
60°	3437	3233	3284
65°	3344	3133	3133
70°	3201	3015	2754
75°	2951	2655	2410
80°	2641	2421	2858
85°	2192	2482	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	3.3
10°-20°	182.6	9.3
20°-30°	278.0	14.1
30°-40°	336.8	17.1
40°-50°	353.3	18.0
50°-60°	323.1	16.4
60°-70°	246.9	12.6
70°-80°	138.8	7.1
80°-90°	43.3	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°	524.6	26.7
0°-40°	861.4	43.8
0°-60°	1537.8	78.2
0°-90°	1966.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1966.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	660	672	674	679	672	63
15°	646	646	648	648	648	181
25°	601	603	601	606	606	278
35°	539	537	535	539	539	338
45°	468	461	459	454	454	357
55°	371	367	357	357	357	332
65°	263	256	246	244	246	260
75°	142	137	128	118	116	151
85°	36	36	40	38	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.5	676.5	676.5	676.5	676.5
2.5°	664.7	674.1	674.1	678.8	676.5
5°	659.9	671.8	674.1	678.8	671.8
7.5°	671.8	669.4	667.0	671.8	674.1
10°	650.5	659.9	659.9	671.8	664.7
12.5°	652.8	655.2	652.8	652.8	659.9
15°	645.7	645.7	648.1	648.1	648.1
17.5°	626.8	636.3	638.6	641.0	638.6
20°	624.4	626.8	629.2	631.5	631.5
22.5°	619.7	615.0	612.6	622.1	617.3
25°	600.8	603.2	600.8	605.5	605.5
27.5°	586.6	586.6	589.0	586.6	591.3
30°	577.1	574.8	570.0	574.8	574.8
32.5°	555.9	558.2	558.2	555.9	555.9
35°	539.3	536.9	534.6	539.3	539.3
37.5°	527.5	515.6	520.4	518.0	520.4
40°	496.7	503.8	496.7	496.7	499.1
42.5°	482.5	480.2	480.2	477.8	477.8
45°	468.3	461.2	458.9	454.1	454.1
47.5°	442.3	442.3	435.2	430.5	435.2
50°	413.9	416.3	406.8	404.5	409.2
52.5°	399.7	392.6	383.2	385.5	383.2
55°	371.4	366.6	357.2	357.2	357.2
57.5°	345.3	343.0	333.5	331.1	331.1
60°	319.3	314.6	300.4	302.8	305.1
62.5°	293.3	286.2	272.0	276.7	276.7
65°	262.6	255.5	246.0	243.6	246.0
67.5°	234.2	224.7	217.6	215.2	210.5
70°	203.4	198.7	191.6	177.4	175.0
72.5°	172.7	165.6	160.8	144.3	141.9
75°	141.9	137.2	127.7	118.3	115.9
77.5°	113.5	111.2	99.3	99.3	104.1
80°	85.2	82.8	78.1	87.5	92.2
82.5°	59.1	56.8	63.9	66.2	66.2
85°	35.5	35.5	40.2	37.8	37.8
87.5°	14.2	16.6	16.6	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)