

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: P35057

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

Test Date: 09/25/16

Test Information

Test Method: LM-79-08
Report Number: P35057
Test Lab: INNOVATION CENTER-P3
Test Date: 09/25/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 12EN-LD2-17-HP-UNV-L835-CD1-U
Description: ENCOUNTER 1X2 LED TROFFER
Light Source: (196) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 320 mA
OTi30W/PRG1050C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1710.3 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.37 / 1.41
Luminous Opening: Rectangular (W 0.83' x L: 1.83' x H: 0')
CIE Type: Direct

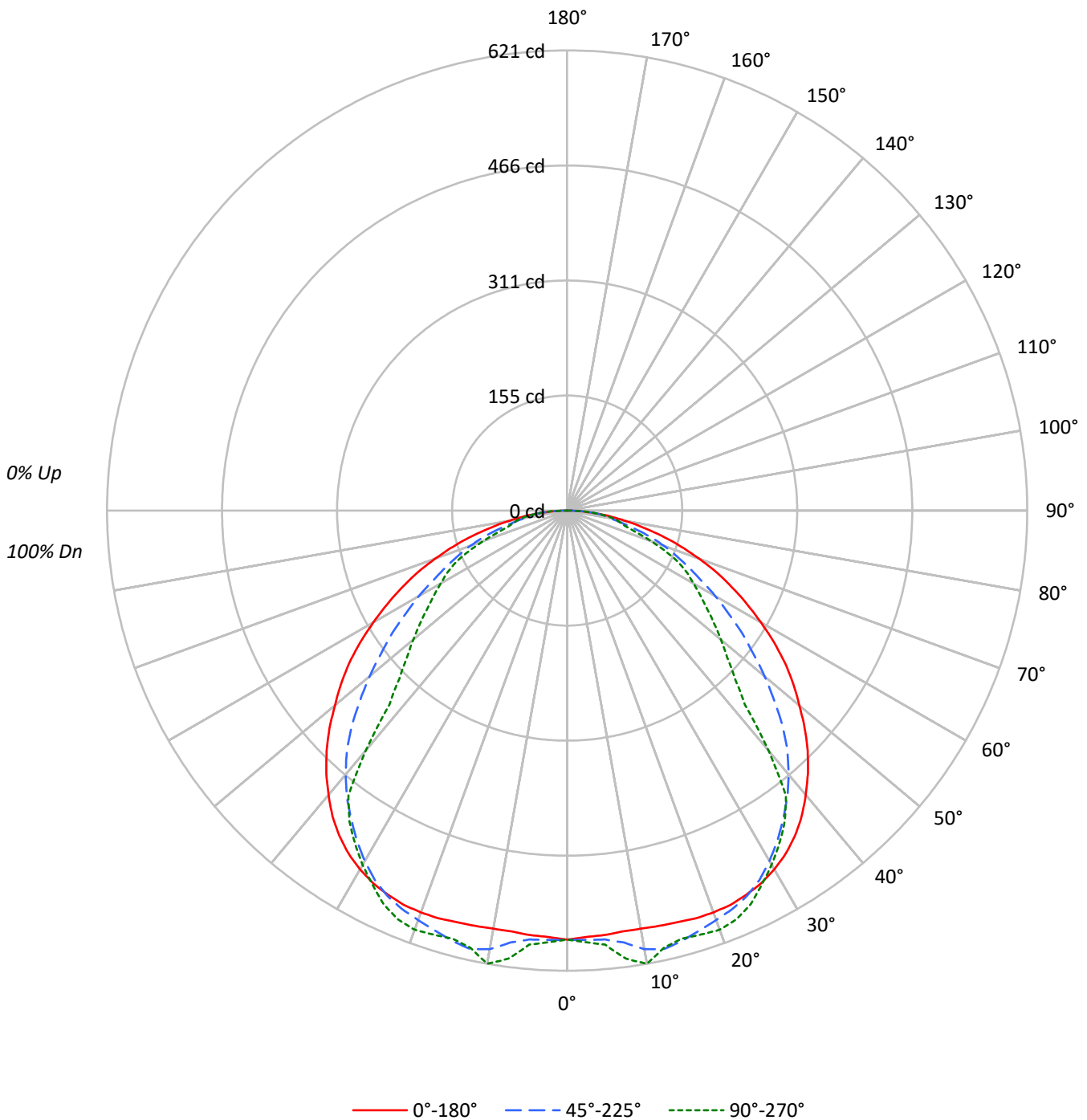
Input Watts (W): 14.6
Input Voltage (V): 120.1
Input Current (Ain): 0.122
Voltage Rise (V): NR
Power Factor: 0.9931
Total Harmonic Distortion (THDi): 5.82%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4079	4079	4079
5°	4067	4109	4159
10°	4099	4300	4443
15°	4194	4384	4362
20°	4326	4409	4514
25°	4447	4462	4555
30°	4548	4442	4491
35°	4610	4369	4404
40°	4608	4277	3890
45°	4573	4095	3188
50°	4483	3814	2970
55°	4410	3538	2825
60°	4255	3255	2776
65°	4101	3001	2767
70°	3893	2863	2472
75°	3593	2559	2205
80°	3205	2394	2637
85°	2829	2829	2910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	3.3
10°-20°	168.2	9.8
20°-30°	265.1	15.5
30°-40°	321.1	18.8
40°-50°	308.1	18.0
50°-60°	257.6	15.1
60°-70°	189.3	11.1
70°-80°	107.4	6.3
80°-90°	37.3	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°	489.4	28.6
0°-40°	810.5	47.4
0°-60°	1376.3	80.5
0°-90°	1710.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1710.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	575	577	581	586	588	55
15°	575	587	601	598	598	163
25°	572	570	574	583	586	264
35°	536	519	508	511	512	335
45°	459	430	411	364	320	353
55°	359	324	288	242	230	320
65°	246	216	180	165	166	244
75°	132	113	94	84	81	140
85°	35	32	35	35	36	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579	579	579	579	579
2.5°	576	577	580	582	583
5°	575	577	581	586	588
7.5°	573	578	588	601	610
10°	573	582	601	619	621
12.5°	574	586	606	607	604
15°	575	587	601	598	598
17.5°	577	586	594	596	600
20°	577	582	588	596	602
22.5°	576	577	582	593	597
25°	572	570	574	583	586
27.5°	567	561	562	568	569
30°	559	550	546	550	552
32.5°	549	535	528	532	533
35°	536	519	508	511	512
37.5°	520	499	488	489	485
40°	501	477	465	451	423
42.5°	481	454	440	402	355
45°	459	430	411	364	320
47.5°	435	404	379	327	293
50°	409	380	348	297	271
52.5°	385	354	316	269	250
55°	359	324	288	242	230
57.5°	331	298	258	220	213
60°	302	271	231	198	197
62.5°	274	244	204	182	183
65°	246	216	180	165	166
67.5°	219	189	159	143	144
70°	189	162	139	122	120
72.5°	161	137	117	100	98
75°	132	113	94	84	81
77.5°	105	91	74	72	73
80°	79	71	59	63	65
82.5°	57	49	50	52	52
85°	35	32	35	35	36
87.5°	17	17	18	19	20
90°	0	0	0	0	0

(END OF REPORT)