

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: P35230

Luminaire Tested: **14EN-LD2-18HP-UNV-L835-CD1-U**

Test Date: 10/09/16

Test Information

Test Method: LM-79-08
Report Number: P35230
Test Lab: INNOVATION CENTER-P3
Test Date: 10/09/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-18HP-UNV-L835-CD1-U
Description: ENCOUNTER 1X4 LED TROFFER
Light Source: (392) EATON 3500K LEDS
EL232N098E835
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 340 mA
OTi30W-PRG1050C/UNV/DIM/L

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1861.5 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 1.4 / 1.42
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

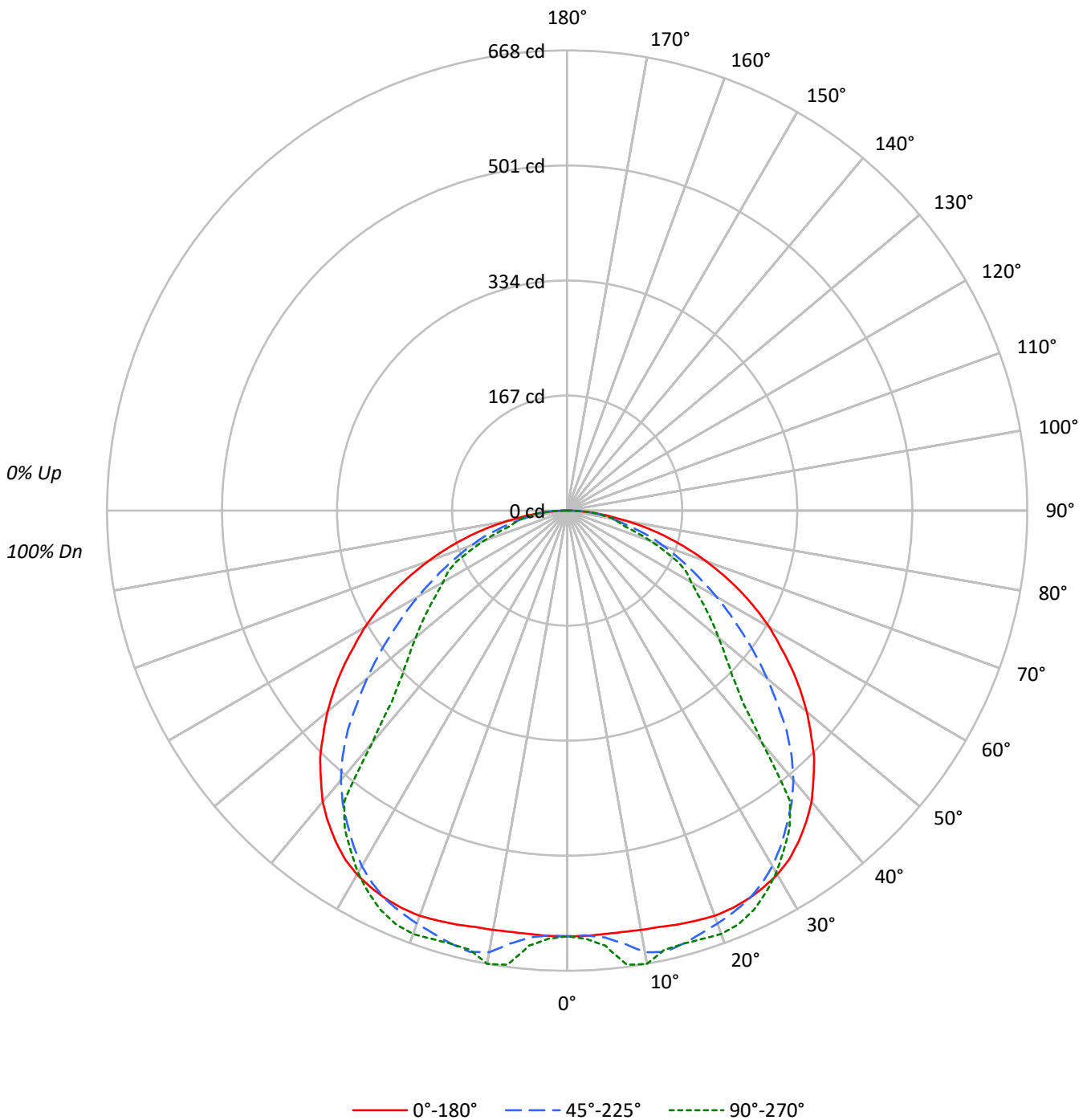
Input Watts (W): 15.2
Input Voltage (V): 120.0
Input Current (Ain): 0.128
Voltage Rise (V): NR
Power Factor: 0.9936
Total Harmonic Distortion (THDi): 5.62%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 5 HR
Ambient Temperature (°C): 24.5
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2082	2082	2082
5°	2087	2104	2144
10°	2115	2227	2286
15°	2170	2271	2271
20°	2245	2288	2345
25°	2313	2316	2379
30°	2373	2319	2362
35°	2411	2287	2316
40°	2428	2248	1935
45°	2416	2144	1615
50°	2380	1987	1504
55°	2332	1827	1433
60°	2285	1685	1402
65°	2217	1555	1427
70°	2108	1458	1271
75°	1966	1328	1107
80°	1727	1203	1300
85°	1469	1469	1469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.2
10°-20°	182.3	9.8
20°-30°	288.9	15.5
30°-40°	351.5	18.9
40°-50°	335.1	18.0
50°-60°	280.0	15.0
60°-70°	206.8	11.1
70°-80°	116.8	6.3
80°-90°	39.7	2.1
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°	531.6	28.6
0°-40°	883.1	47.4
0°-60°	1498.1	80.5
0°-90°	1861.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	617	619	622	630	634	59
15°	622	637	651	649	651	176
25°	622	622	623	635	640	287
35°	586	567	556	563	563	366
45°	507	472	450	388	339	390
55°	397	360	311	258	244	355
65°	278	240	195	176	179	275
75°	151	124	102	88	85	160
85°	38	34	38	37	38	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	618	618	618	618	618
2.5°	618	617	617	620	622
5°	617	619	622	630	634
7.5°	617	622	634	655	665
10°	618	629	651	667	668
12.5°	619	634	656	655	653
15°	622	637	651	649	651
17.5°	624	637	644	647	652
20°	626	634	638	647	654
22.5°	625	629	631	645	650
25°	622	622	623	635	640
27.5°	617	613	611	621	625
30°	610	600	596	604	607
32.5°	600	586	577	585	585
35°	586	567	556	563	563
37.5°	570	547	535	535	531
40°	552	524	511	486	440
42.5°	529	498	482	432	377
45°	507	472	450	388	339
47.5°	480	446	413	349	311
50°	454	418	379	315	287
52.5°	426	389	345	285	265
55°	397	360	311	258	244
57.5°	367	329	280	233	224
60°	339	300	250	211	208
62.5°	309	270	221	193	196
65°	278	240	195	176	179
67.5°	246	209	170	156	153
70°	214	180	148	133	129
72.5°	183	151	127	108	105
75°	151	124	102	88	85
77.5°	121	99	80	74	76
80°	89	79	62	65	67
82.5°	61	54	52	54	53
85°	38	34	38	37	38
87.5°	17	19	20	20	20
90°	0	0	0	0	0

(END OF REPORT)