

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: P35236

Luminaire Tested: **14EN-LD2-47HP-UNV-L835-CD1-U**

Test Date: 10/08/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35236  
Test Lab: INNOVATION CENTER-P3  
Test Date: 10/08/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14EN-LD2-47HP-UNV-L835-CD1-U  
Description: ENCOUNTER 1X4 LED TROFFER  
Light Source: (392) EATON 3500K LEDS  
EL232N098E835  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 880 mA  
OT50W/PRG1400C/UNV/DIM/L

**Summary**

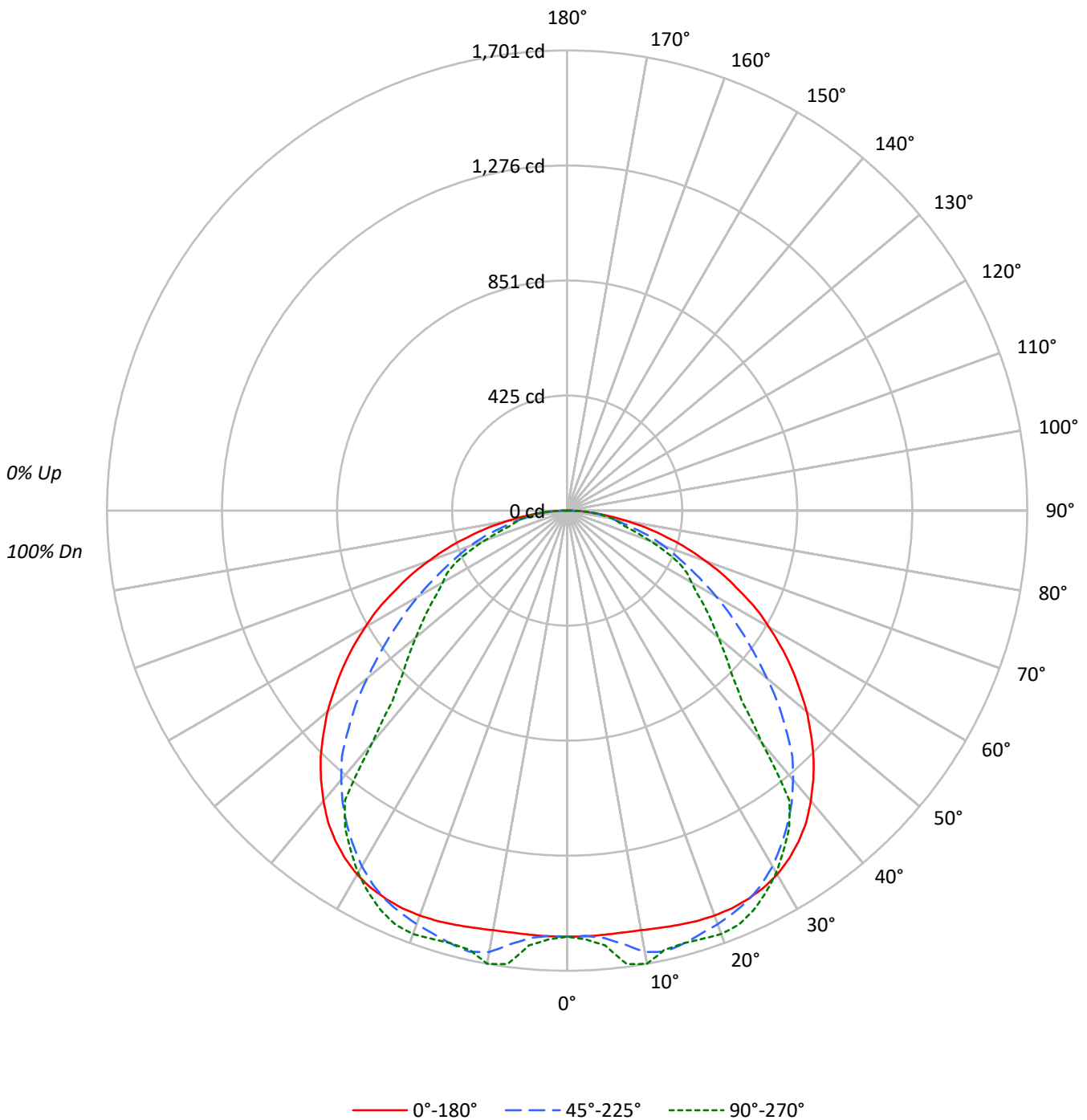
Lumens per Lamp: N/A  
Luminaire Lumens: 4741.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.4 / 1.42  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 39.4  
Input Voltage (V): 120.0  
Input Current (Ain): 0.330  
Voltage Rise (V): NR  
Power Factor: 0.9989  
Total Harmonic Distortion (THDi): 7.98%  
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	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	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5307	5307	5307
5°	5324	5365	5456
10°	5389	5670	5820
15°	5533	5784	5777
20°	5712	5834	5974
25°	5889	5904	6060
30°	6042	5906	6015
35°	6137	5837	5886
40°	6163	5714	4927
45°	6138	5452	4112
50°	6060	5053	3822
55°	5945	4653	3654
60°	5809	4293	3572
65°	5613	3939	3620
70°	5359	3734	3202
75°	4960	3372	2838
80°	4405	3085	3338
85°	3673	3750	3673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	3.3
10°-20°	464.4	9.8
20°-30°	736.2	15.5
30°-40°	895.3	18.9
40°-50°	853.4	18.0
50°-60°	713.0	15.0
60°-70°	526.2	11.1
70°-80°	297.1	6.3
80°-90°	101.6	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°	1354.7	28.6
0°-40°	2250.0	47.5
0°-60°	3816.5	80.5
0°-90°	4741.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4741.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1574	1579	1586	1605	1613	150
15°	1586	1624	1658	1652	1656	450
25°	1584	1586	1588	1620	1630	731
35°	1492	1446	1419	1434	1431	932
45°	1288	1203	1144	986	863	992
55°	1012	919	792	655	622	904
65°	704	609	494	449	454	699
75°	381	315	259	223	218	405
85°	95	87	97	95	95	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1575	1575	1575	1575	1575
2.5°	1575	1575	1573	1581	1587
5°	1574	1579	1586	1605	1613
7.5°	1573	1587	1617	1668	1691
10°	1575	1601	1657	1700	1701
12.5°	1580	1616	1670	1667	1663
15°	1586	1624	1658	1652	1656
17.5°	1591	1623	1641	1649	1660
20°	1593	1616	1627	1649	1666
22.5°	1591	1603	1609	1642	1657
25°	1584	1586	1588	1620	1630
27.5°	1572	1563	1557	1583	1591
30°	1553	1532	1518	1541	1546
32.5°	1526	1493	1470	1489	1489
35°	1492	1446	1419	1434	1431
37.5°	1452	1394	1363	1364	1349
40°	1401	1333	1299	1239	1120
42.5°	1347	1269	1232	1105	957
45°	1288	1203	1144	986	863
47.5°	1222	1135	1059	886	794
50°	1156	1064	964	801	729
52.5°	1083	994	876	727	673
55°	1012	919	792	655	622
57.5°	938	841	713	593	569
60°	862	763	637	536	530
62.5°	789	689	563	492	500
65°	704	609	494	449	454
67.5°	628	533	433	396	390
70°	544	457	379	334	325
72.5°	466	385	323	277	266
75°	381	315	259	223	218
77.5°	305	254	203	189	193
80°	227	200	159	166	172
82.5°	159	138	132	139	138
85°	95	87	97	95	95
87.5°	44	48	51	52	52
90°	0	0	0	0	0

(END OF REPORT)