

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: P35094

Luminaire Tested: **14ENA-LD2-18HP-UNV-L827-CD1-U**

Test Date: 10/18/16

**Test Information**

Test Method: LM-79-08  
Report Number: P35094  
Test Lab: INNOVATION CENTER-P3  
Test Date: 10/18/16  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ENA-LD2-18HP-UNV-L827-CD1-U  
Description: ENCOUNTER AIR 1X4 LED TROFFER  
Light Source: (392) EATON 2700K LEDS  
EL232N098E827  
Ballast/Driver: (1) OSRAM ELECTRONIC DRIVER @ 340 mA  
OT30iW/PRG1050C/UNV/DIM/L

**Summary**

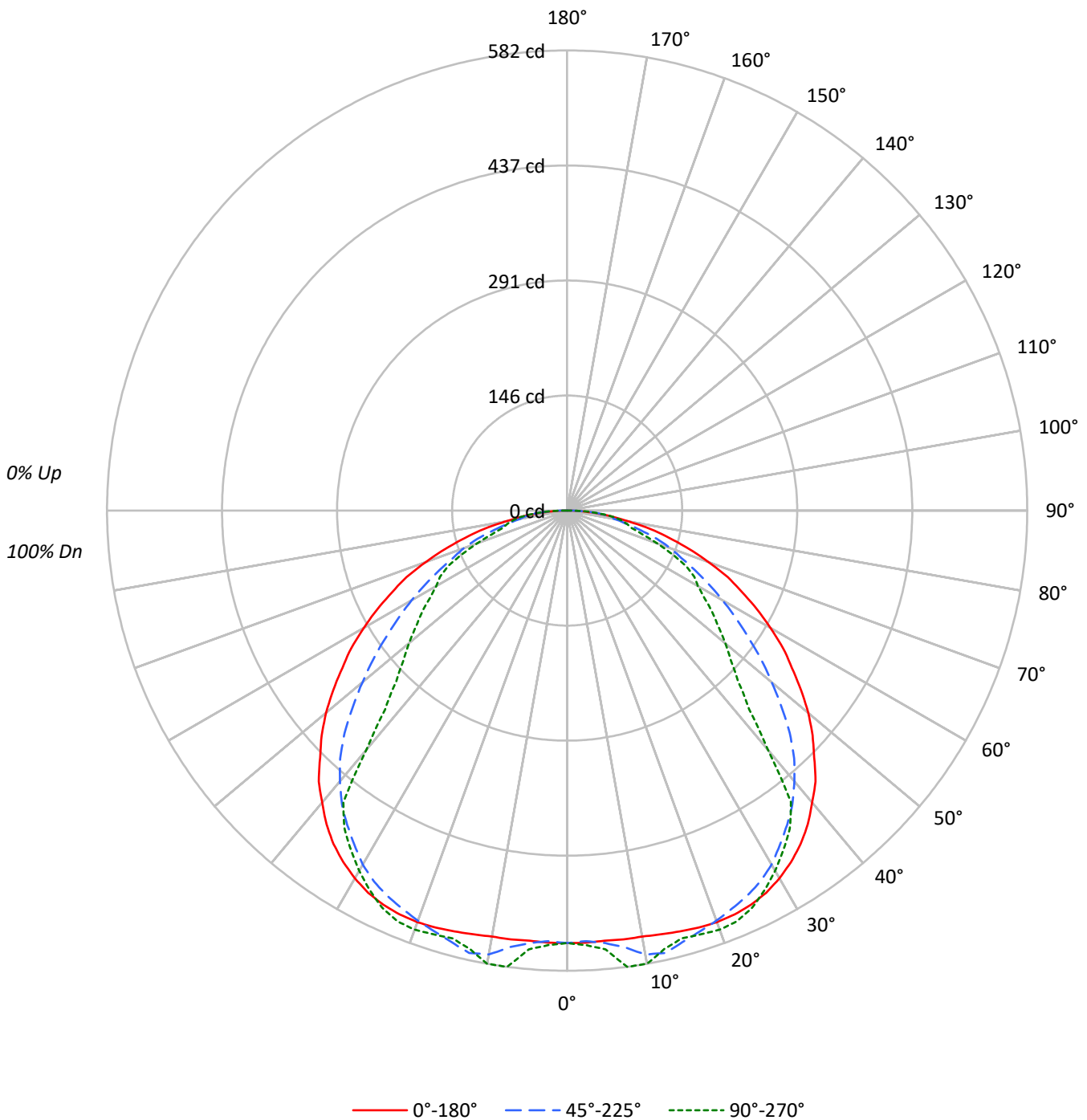
Lumens per Lamp: N/A  
Luminaire Lumens: 1654.9 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 1.39 / 1.42  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.1  
Input Voltage (V): 120.0  
Input Current (Ain): 0.127  
Voltage Rise (V): NR  
Power Factor: 0.9935  
Total Harmonic Distortion (THDi): 5.64%  
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	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	838	838	838
5°	839	844	856
10°	851	886	905
15°	874	896	888
20°	903	900	919
25°	929	909	936
30°	950	914	930
35°	963	907	918
40°	964	894	790
45°	957	862	663
50°	948	805	622
55°	927	748	598
60°	910	695	585
65°	884	645	602
70°	851	622	542
75°	793	568	497
80°	697	538	609
85°	597	685	703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.3	3.2
10°-20°	158.9	9.6
20°-30°	251.1	15.2
30°-40°	307.0	18.5
40°-50°	297.0	17.9
50°-60°	250.9	15.2
60°-70°	187.8	11.4
70°-80°	109.2	6.6
80°-90°	39.7	2.4
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°	463.3	28.0
0°-40°	770.2	46.5
0°-60°	1318.1	79.7
0°-90°	1654.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1654.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	548	549	554	557	52
15°	551	560	565	560	560	156
25°	550	542	538	550	554	254
35°	515	494	485	491	491	322
45°	442	415	398	349	306	341
55°	347	318	280	236	224	311
65°	244	214	178	165	166	242
75°	134	113	96	85	84	142
85°	34	33	39	40	40	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	547	547	547	547	547
2.5°	547	547	545	549	550
5°	546	548	549	554	557
7.5°	547	550	557	573	582
10°	547	555	570	583	582
12.5°	549	559	573	570	568
15°	551	560	565	560	560
17.5°	553	558	558	558	562
20°	554	555	552	558	564
22.5°	553	550	545	557	562
25°	550	542	538	550	554
27.5°	545	533	529	539	541
30°	537	523	517	524	526
32.5°	527	510	501	508	509
35°	515	494	485	491	491
37.5°	500	477	468	470	465
40°	482	457	447	431	395
42.5°	465	437	425	386	341
45°	442	415	398	349	306
47.5°	421	392	368	315	281
50°	398	368	338	285	261
52.5°	373	344	309	259	241
55°	347	318	280	236	224
57.5°	324	293	253	214	206
60°	297	267	227	194	191
62.5°	271	241	202	178	181
65°	244	214	178	165	166
67.5°	220	189	156	145	143
70°	190	163	139	123	121
72.5°	162	138	119	103	100
75°	134	113	96	85	84
77.5°	108	92	76	74	77
80°	79	73	61	66	69
82.5°	56	51	52	56	57
85°	34	33	39	40	40
87.5°	16	19	22	22	23
90°	0	0	0	0	0

(END OF REPORT)