

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: P238697

Luminaire Tested: **14EN-LD2-33-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-33-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2789.4 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

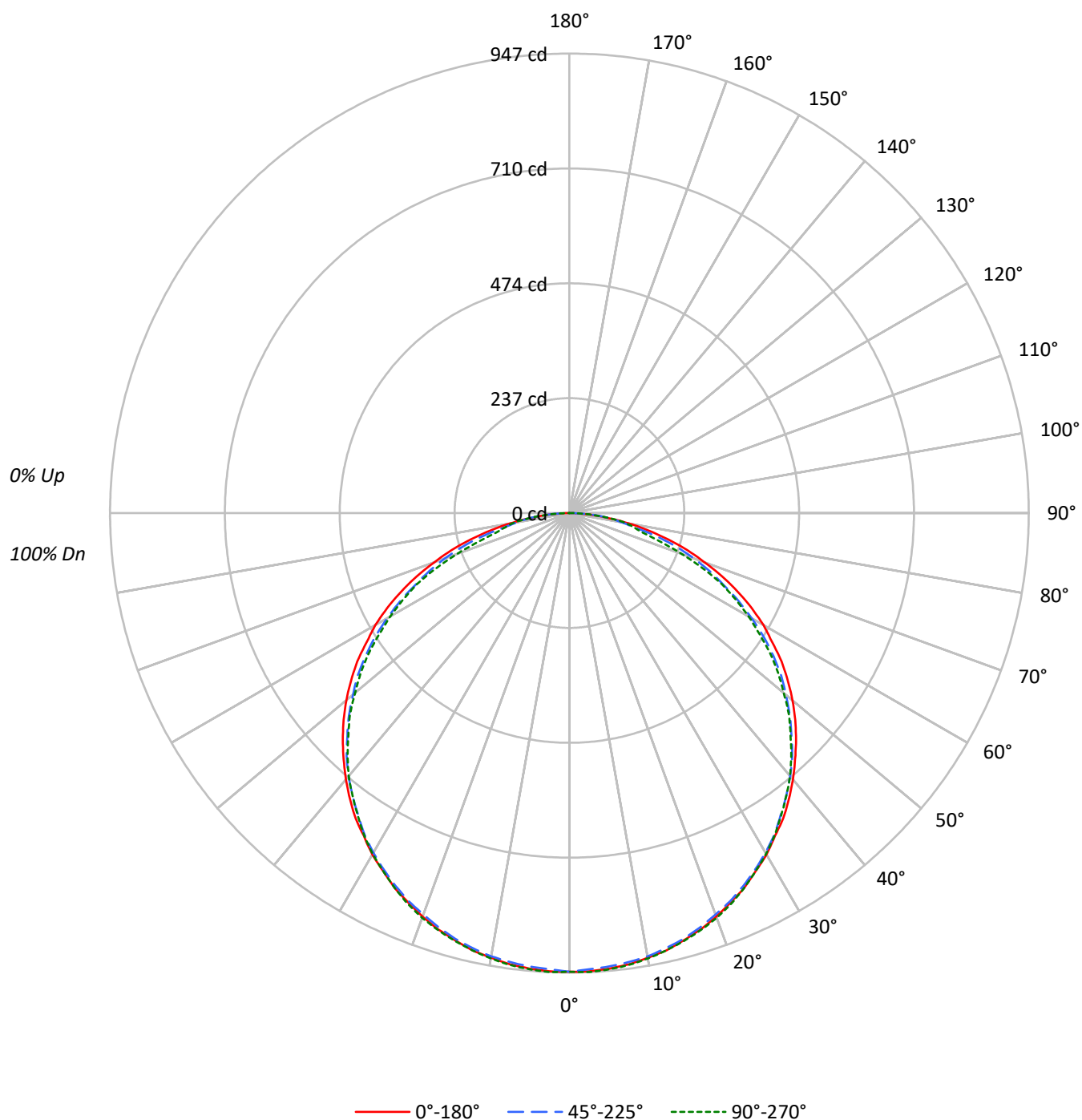
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238697

CATALOG NUMBER: 14EN-LD2-33-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238697

CATALOG NUMBER: 14EN-LD2-33-UNV-L930-CD1-U

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2654	2654	2654
5°	2656	2644	2661
10°	2653	2645	2658
15°	2649	2641	2654
20°	2644	2631	2653
25°	2641	2627	2641
30°	2635	2620	2630
35°	2634	2603	2609
40°	2627	2595	2595
45°	2624	2571	2559
50°	2622	2545	2519
55°	2614	2512	2477
60°	2592	2435	2394
65°	2538	2332	2303
70°	2433	2240	2022
75°	2288	2016	1696
80°	2028	1742	1908
85°	1569	1804	1711



TEST NUMBER: P238697

CATALOG NUMBER: 14EN-LD2-33-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	3.2
10°-20°	257.1	9.2
20°-30°	391.9	14.0
30°-40°	477.2	17.1
40°-50°	501.8	18.0
50°-60°	460.6	16.5
60°-70°	353.9	12.7
70°-80°	197.5	7.1
80°-90°	60.0	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°	738.5	26.5
0°-40°	1215.7	43.6
0°-60°	2178.1	78.1
0°-90°	2789.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	942	942	938	942	944	90
15°	911	911	908	911	913	257
25°	852	850	848	851	852	393
35°	768	765	760	761	761	480
45°	661	656	647	644	644	510
55°	534	529	513	504	506	476
65°	382	372	351	347	347	377
75°	211	201	186	161	156	223
85°	49	50	56	55	53	59
90°	0	0	0	0	0	



TEST NUMBER: P238697

CATALOG NUMBER: 14EN-LD2-33-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.3	945.3	945.3	945.3	945.3
2.5°	945.3	945.3	940.9	945.3	946.8
5°	942.4	942.4	938.0	942.4	943.9
7.5°	938.0	938.0	933.5	936.5	939.4
10°	930.6	930.6	927.6	930.6	932.1
12.5°	923.2	921.7	918.8	921.7	923.2
15°	911.4	911.4	908.5	911.4	912.9
17.5°	899.6	898.1	895.2	899.6	901.1
20°	884.9	883.4	880.4	884.9	887.8
22.5°	868.6	867.2	865.7	870.1	871.6
25°	852.4	849.5	848.0	851.0	852.4
27.5°	831.8	830.3	828.8	830.3	831.8
30°	812.6	809.7	808.2	808.2	811.1
32.5°	789.0	787.5	786.1	787.5	787.5
35°	768.4	765.4	759.5	761.0	761.0
37.5°	743.3	738.9	734.4	734.4	734.4
40°	716.7	713.8	707.9	706.4	707.9
42.5°	688.7	685.8	679.9	675.5	676.9
45°	660.7	656.3	647.4	644.5	644.5
47.5°	631.2	626.8	616.5	612.0	613.5
50°	600.2	594.3	582.5	576.6	576.6
52.5°	567.8	561.9	550.1	542.7	542.7
55°	533.9	529.4	513.2	504.4	505.9
57.5°	495.5	491.1	474.9	464.6	464.6
60°	461.6	452.8	433.6	426.2	426.2
62.5°	423.3	412.9	393.8	384.9	386.4
65°	382.0	371.6	351.0	346.6	346.6
67.5°	340.7	331.8	312.7	305.3	297.9
70°	296.4	287.6	272.8	255.1	246.3
72.5°	255.1	244.8	231.5	205.0	196.1
75°	210.9	200.6	185.8	160.8	156.3
77.5°	168.1	159.3	138.6	132.7	135.7
80°	125.4	122.4	107.7	113.6	118.0
82.5°	84.1	82.6	85.5	88.5	88.5
85°	48.7	50.1	56.0	54.6	53.1
87.5°	20.6	25.1	23.6	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)