

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: P238717

Luminaire Tested: **14ENA-LD2-18-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238717
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: 14ENA-LD2-18-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1337.4 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

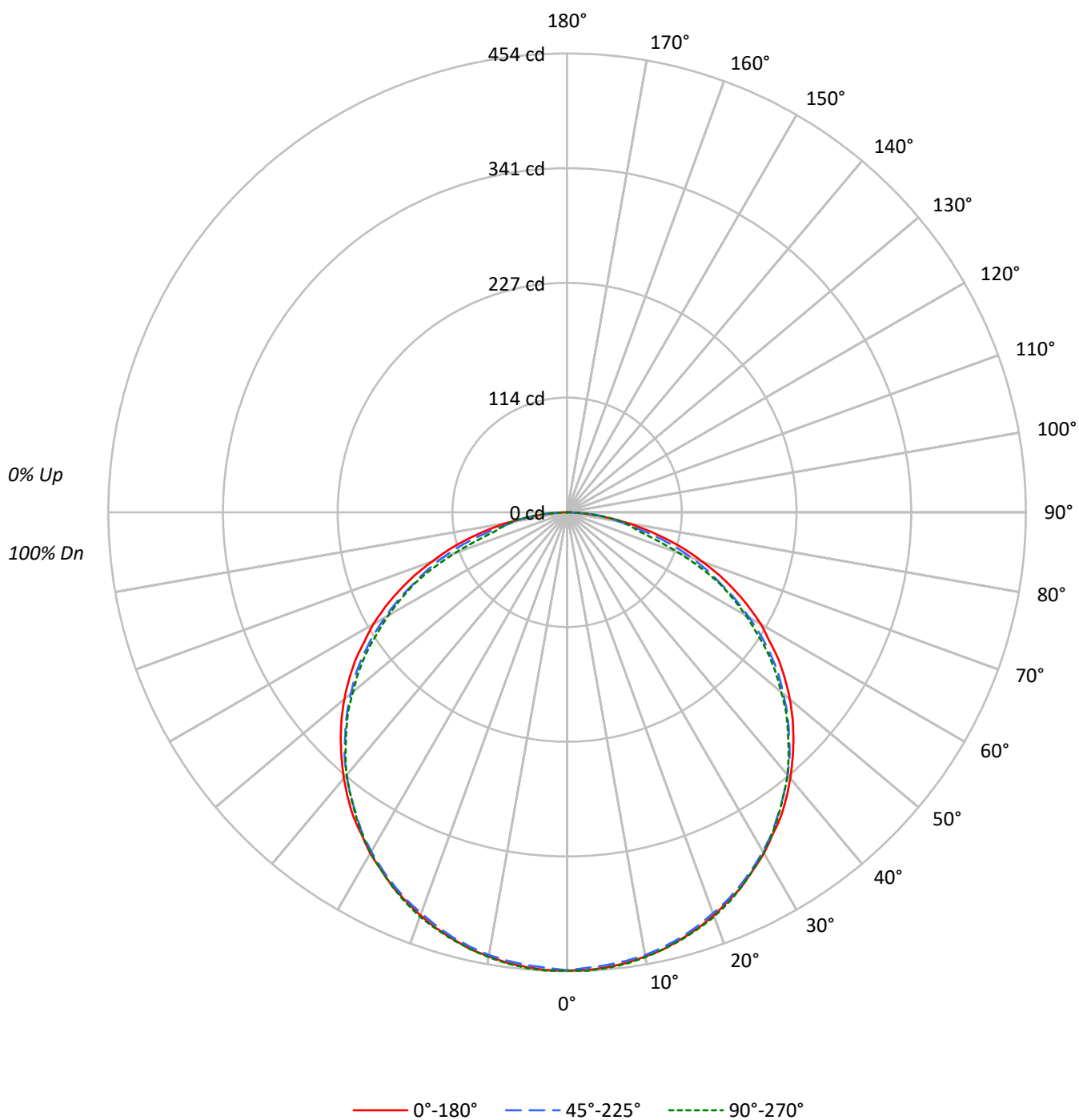
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238717

CATALOG NUMBER: 14ENA-LD2-18-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238717

CATALOG NUMBER: 14ENA-LD2-18-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°	1909	1909	1909
5°	1910	1901	1914
10°	1908	1902	1911
15°	1906	1899	1909
20°	1902	1892	1908
25°	1899	1890	1899
30°	1895	1885	1891
35°	1894	1873	1876
40°	1890	1866	1866
45°	1887	1849	1841
50°	1886	1830	1812
55°	1880	1807	1781
60°	1864	1751	1722
65°	1825	1677	1656
70°	1750	1611	1454
75°	1645	1450	1221
80°	1458	1252	1373
85°	1126	1300	1232



TEST NUMBER: P238717

CATALOG NUMBER: 14ENA-LD2-18-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	3.2
10°-20°	123.3	9.2
20°-30°	187.9	14.0
30°-40°	228.8	17.1
40°-50°	240.6	18.0
50°-60°	220.8	16.5
60°-70°	169.7	12.7
70°-80°	94.7	7.1
80°-90°	28.7	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°	354.1	26.5
0°-40°	582.9	43.6
0°-60°	1044.3	78.1
0°-90°	1337.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	453	453	453	453	453	
5°	452	452	450	452	453	43
15°	437	437	436	437	438	123
25°	409	407	407	408	409	188
35°	368	367	364	365	365	230
45°	317	315	310	309	309	244
55°	256	254	246	242	242	228
65°	183	178	168	166	166	181
75°	101	96	89	77	75	107
85°	23	24	27	26	26	28
90°	0	0	0	0	0	



TEST NUMBER: P238717

CATALOG NUMBER: 14ENA-LD2-18-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453.3	453.3	453.3	453.3	453.3
2.5°	453.3	453.3	451.1	453.3	454.0
5°	451.8	451.8	449.7	451.8	452.6
7.5°	449.7	449.7	447.6	449.0	450.4
10°	446.2	446.2	444.8	446.2	446.9
12.5°	442.7	441.9	440.5	441.9	442.7
15°	437.0	437.0	435.6	437.0	437.7
17.5°	431.3	430.6	429.2	431.3	432.0
20°	424.3	423.6	422.1	424.3	425.7
22.5°	416.5	415.8	415.1	417.2	417.9
25°	408.7	407.3	406.6	408.0	408.7
27.5°	398.8	398.1	397.4	398.1	398.8
30°	389.6	388.2	387.5	387.5	388.9
32.5°	378.3	377.6	376.9	377.6	377.6
35°	368.4	367.0	364.2	364.9	364.9
37.5°	356.4	354.3	352.1	352.1	352.1
40°	343.7	342.2	339.4	338.7	339.4
42.5°	330.2	328.8	326.0	323.9	324.6
45°	316.8	314.7	310.4	309.0	309.0
47.5°	302.6	300.5	295.6	293.5	294.2
50°	287.8	285.0	279.3	276.5	276.5
52.5°	272.2	269.4	263.8	260.2	260.2
55°	256.0	253.9	246.1	241.8	242.5
57.5°	237.6	235.5	227.7	222.7	222.7
60°	221.3	217.1	207.9	204.4	204.4
62.5°	202.9	198.0	188.8	184.6	185.3
65°	183.1	178.2	168.3	166.2	166.2
67.5°	163.3	159.1	149.9	146.4	142.8
70°	142.1	137.9	130.8	122.3	118.1
72.5°	122.3	117.4	111.0	98.3	94.0
75°	101.1	96.2	89.1	77.1	75.0
77.5°	80.6	76.4	66.5	63.6	65.1
80°	60.1	58.7	51.6	54.4	56.6
82.5°	40.3	39.6	41.0	42.4	42.4
85°	23.3	24.0	26.9	26.2	25.5
87.5°	9.9	12.0	11.3	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)