

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: P238718

Luminaire Tested: **14ENA-LD2-18-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238718
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-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1374.3 lumens
Efficiency: N/A
Efficacy: 85.9 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

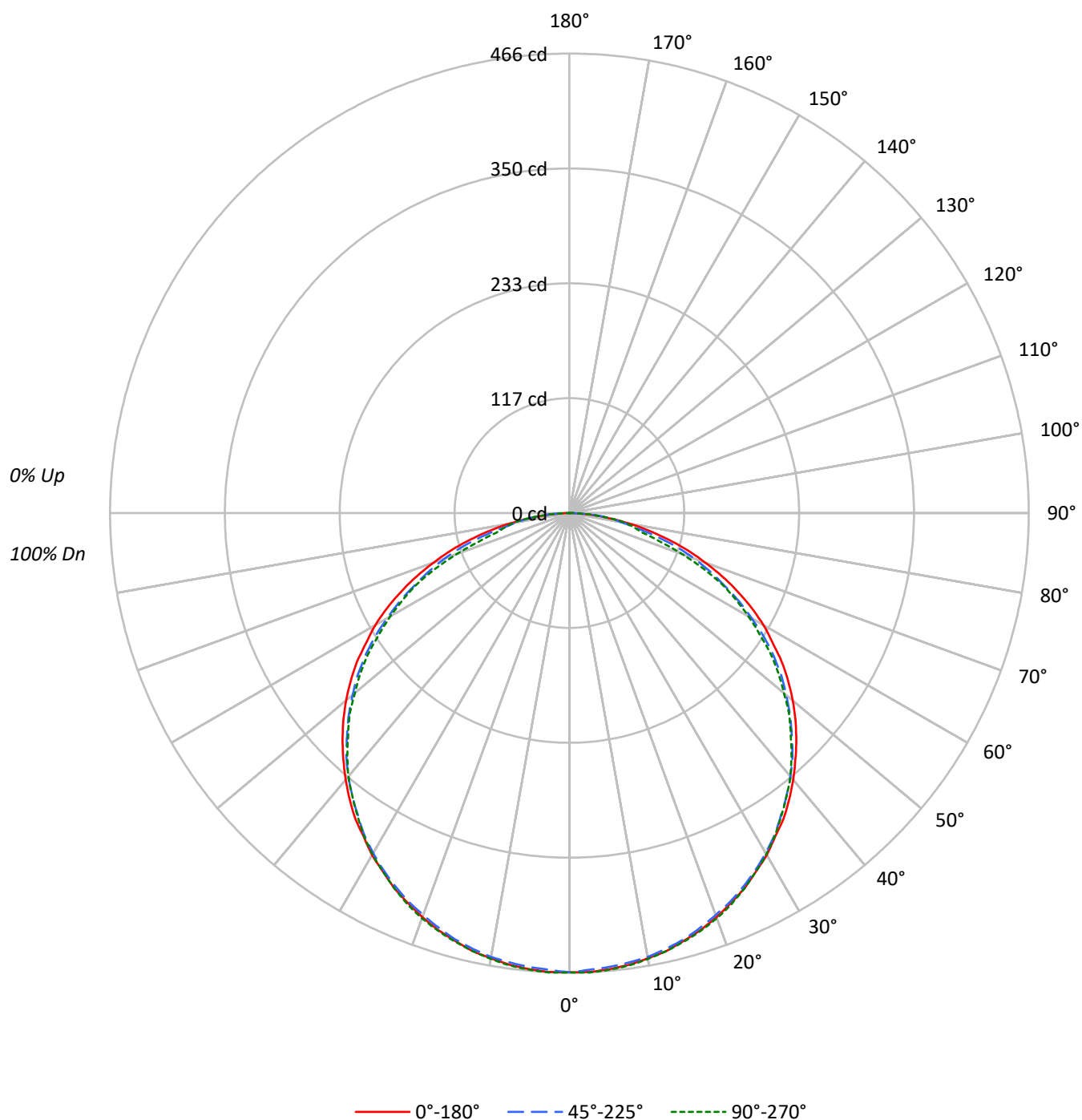
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238718

CATALOG NUMBER: 14ENA-LD2-18-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238718

CATALOG NUMBER: 14ENA-LD2-18-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83	
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37	
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33	
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26	
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1962	1962	1962
5°	1963	1954	1966
10°	1961	1955	1964
15°	1958	1952	1961
20°	1954	1944	1961
25°	1952	1942	1952
30°	1947	1937	1943
35°	1947	1924	1928
40°	1941	1918	1918
45°	1939	1900	1891
50°	1938	1881	1862
55°	1931	1857	1830
60°	1916	1799	1769
65°	1876	1723	1702
70°	1798	1655	1494
75°	1691	1491	1253
80°	1499	1286	1409
85°	1160	1334	1266



TEST NUMBER: P238718

CATALOG NUMBER: 14ENA-LD2-18-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	3.2
10°-20°	126.7	9.2
20°-30°	193.1	14.0
30°-40°	235.1	17.1
40°-50°	247.2	18.0
50°-60°	226.9	16.5
60°-70°	174.3	12.7
70°-80°	97.3	7.1
80°-90°	29.5	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°	363.9	26.5
0°-40°	599.0	43.6
0°-60°	1073.1	78.1
0°-90°	1374.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1374.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	464	464	462	464	465	44
15°	449	449	448	449	450	127
25°	420	418	418	419	420	193
35°	379	377	374	375	375	237
45°	326	323	319	318	318	251
55°	263	261	253	248	249	235
65°	188	183	173	171	171	186
75°	104	99	92	79	77	110
85°	24	25	28	27	26	29
90°	0	0	0	0	0	



TEST NUMBER: P238718

CATALOG NUMBER: 14ENA-LD2-18-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	465.8	465.8	465.8	465.8	465.8
2.5°	465.8	465.8	463.6	465.8	466.5
5°	464.3	464.3	462.1	464.3	465.0
7.5°	462.1	462.1	459.9	461.4	462.8
10°	458.5	458.5	457.0	458.5	459.2
12.5°	454.9	454.1	452.7	454.1	454.9
15°	449.0	449.0	447.6	449.0	449.8
17.5°	443.2	442.5	441.0	443.2	444.0
20°	436.0	435.2	433.8	436.0	437.4
22.5°	428.0	427.2	426.5	428.7	429.4
25°	420.0	418.5	417.8	419.3	420.0
27.5°	409.8	409.1	408.4	409.1	409.8
30°	400.4	398.9	398.2	398.2	399.6
32.5°	388.7	388.0	387.3	388.0	388.0
35°	378.6	377.1	374.2	374.9	374.9
37.5°	366.2	364.0	361.8	361.8	361.8
40°	353.1	351.7	348.8	348.0	348.8
42.5°	339.3	337.9	335.0	332.8	333.5
45°	325.5	323.3	319.0	317.5	317.5
47.5°	311.0	308.8	303.7	301.5	302.3
50°	295.7	292.8	287.0	284.1	284.1
52.5°	279.7	276.8	271.0	267.4	267.4
55°	263.0	260.9	252.9	248.5	249.2
57.5°	244.1	242.0	234.0	228.9	228.9
60°	227.4	223.1	213.6	210.0	210.0
62.5°	208.5	203.4	194.0	189.6	190.4
65°	188.2	183.1	172.9	170.8	170.8
67.5°	167.8	163.5	154.0	150.4	146.8
70°	146.0	141.7	134.4	125.7	121.3
72.5°	125.7	120.6	114.1	101.0	96.6
75°	103.9	98.8	91.6	79.2	77.0
77.5°	82.8	78.5	68.3	65.4	66.8
80°	61.8	60.3	53.0	55.9	58.1
82.5°	41.4	40.7	42.1	43.6	43.6
85°	24.0	24.7	27.6	26.9	26.2
87.5°	10.2	12.4	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)