

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: P238750

Luminaire Tested: **14EN-LD2-18-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238750
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-LD2-18-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1856.0 lumens
Efficiency: N/A
Efficacy: 116.0 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

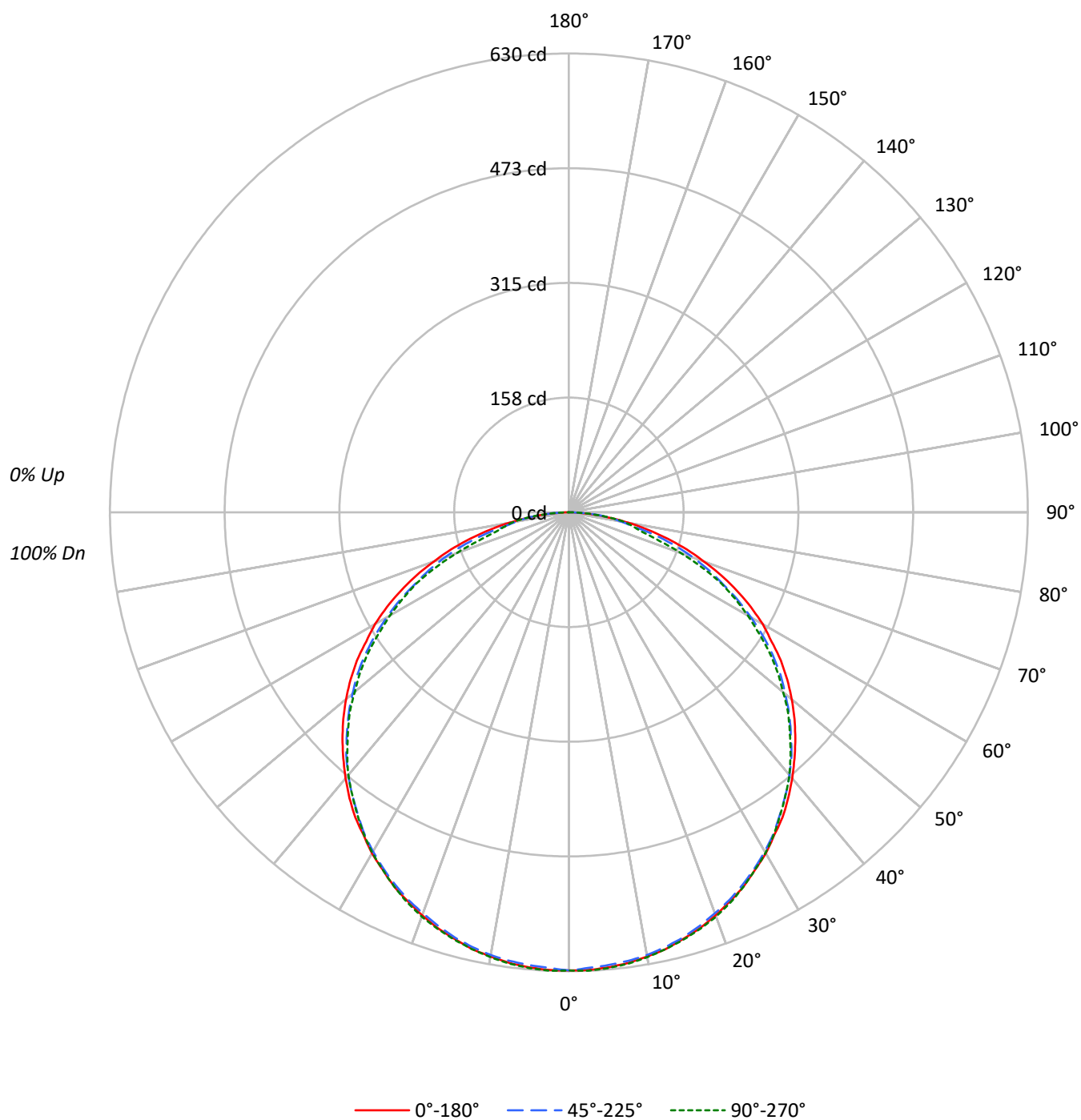
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1766	1766	1766
5°	1767	1759	1770
10°	1766	1760	1768
15°	1763	1757	1766
20°	1759	1750	1765
25°	1757	1748	1757
30°	1753	1743	1750
35°	1753	1732	1736
40°	1748	1726	1726
45°	1746	1711	1703
50°	1745	1693	1676
55°	1739	1672	1648
60°	1725	1620	1593
65°	1689	1551	1532
70°	1619	1490	1346
75°	1522	1341	1128
80°	1349	1158	1269
85°	1044	1202	1137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.6	3.2
10°-20°	171.1	9.2
20°-30°	260.8	14.0
30°-40°	317.5	17.1
40°-50°	333.9	18.0
50°-60°	306.5	16.5
60°-70°	235.4	12.7
70°-80°	131.4	7.1
80°-90°	39.9	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°	491.4	26.5
0°-40°	808.9	43.6
0°-60°	1449.2	78.1
0°-90°	1856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	627	627	624	627	628	60
15°	606	606	604	606	607	171
25°	567	565	564	566	567	261
35°	511	509	505	506	506	320
45°	440	437	431	429	429	339
55°	355	352	342	336	337	317
65°	254	247	234	231	231	251
75°	140	134	124	107	104	148
85°	32	33	37	36	35	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.0	629.0	629.0	629.0	629.0
2.5°	629.0	629.0	626.1	629.0	630.0
5°	627.0	627.0	624.1	627.0	628.0
7.5°	624.1	624.1	621.2	623.1	625.1
10°	619.2	619.2	617.2	619.2	620.2
12.5°	614.3	613.3	611.3	613.3	614.3
15°	606.4	606.4	604.5	606.4	607.4
17.5°	598.6	597.6	595.6	598.6	599.6
20°	588.8	587.8	585.8	588.8	590.7
22.5°	578.0	577.0	576.0	579.0	579.9
25°	567.2	565.2	564.2	566.2	567.2
27.5°	553.4	552.5	551.5	552.5	553.4
30°	540.7	538.7	537.7	537.7	539.7
32.5°	525.0	524.0	523.0	524.0	524.0
35°	511.3	509.3	505.4	506.3	506.3
37.5°	494.6	491.6	488.7	488.7	488.7
40°	476.9	474.9	471.0	470.0	471.0
42.5°	458.3	456.3	452.4	449.4	450.4
45°	439.6	436.7	430.8	428.8	428.8
47.5°	420.0	417.0	410.2	407.2	408.2
50°	399.4	395.5	387.6	383.7	383.7
52.5°	377.8	373.9	366.0	361.1	361.1
55°	355.2	352.3	341.5	335.6	336.6
57.5°	329.7	326.8	316.0	309.1	309.1
60°	307.1	301.3	288.5	283.6	283.6
62.5°	281.6	274.8	262.0	256.1	257.1
65°	254.2	247.3	233.5	230.6	230.6
67.5°	226.7	220.8	208.0	203.1	198.2
70°	197.2	191.4	181.5	169.8	163.9
72.5°	169.8	162.9	154.1	136.4	130.5
75°	140.3	133.5	123.6	107.0	104.0
77.5°	111.9	106.0	92.2	88.3	90.3
80°	83.4	81.4	71.6	75.6	78.5
82.5°	55.9	55.0	56.9	58.9	58.9
85°	32.4	33.4	37.3	36.3	35.3
87.5°	13.7	16.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)