

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: P238686

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238686
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-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1598.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

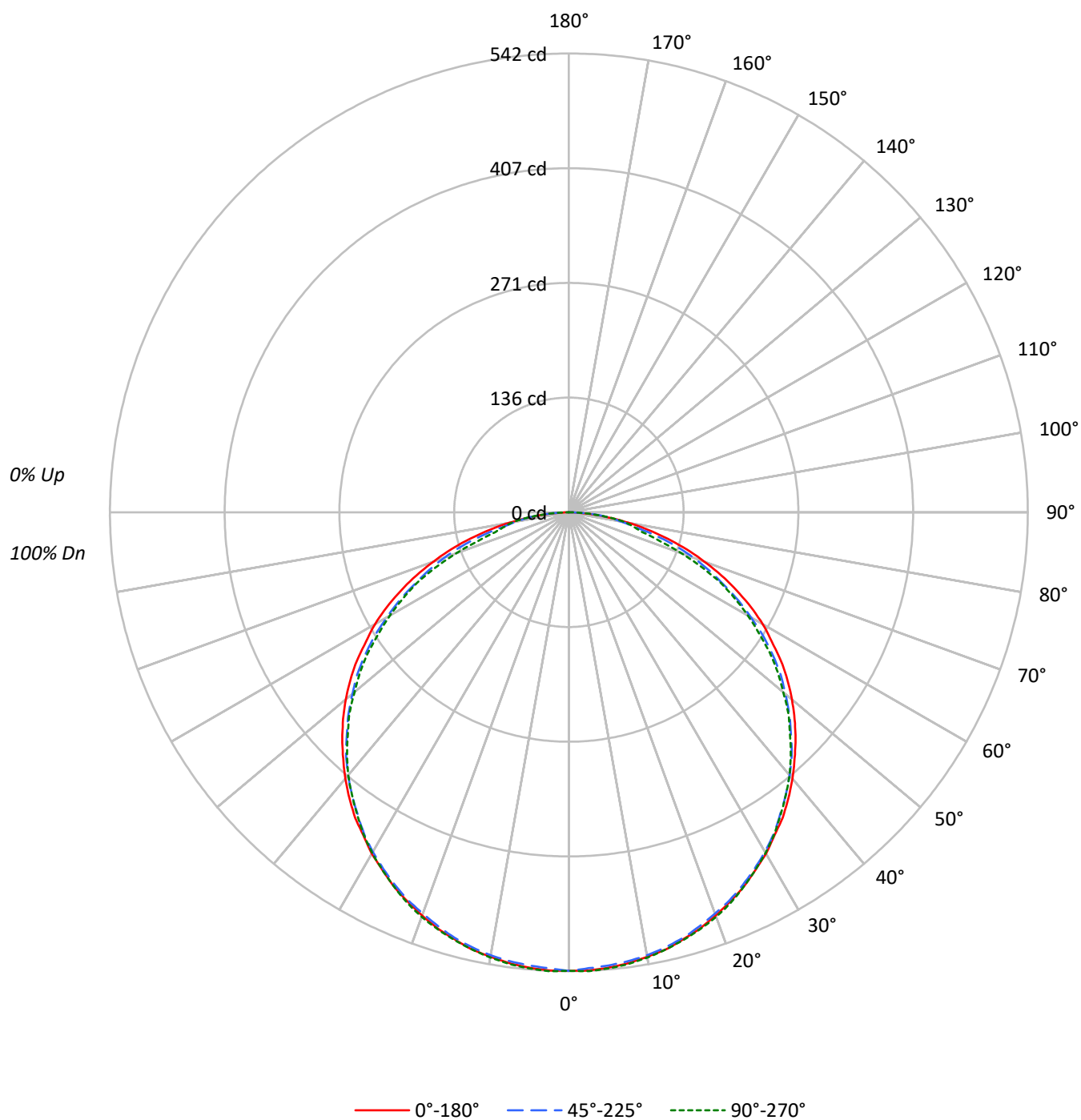
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1521	1521	1521
5°	1522	1514	1524
10°	1520	1515	1523
15°	1518	1513	1520
20°	1515	1507	1520
25°	1513	1505	1513
30°	1509	1501	1507
35°	1509	1491	1495
40°	1505	1486	1486
45°	1503	1473	1466
50°	1502	1458	1443
55°	1497	1439	1419
60°	1485	1395	1371
65°	1454	1336	1319
70°	1394	1283	1158
75°	1311	1155	972
80°	1161	998	1093
85°	899	1034	979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.2
10°-20°	147.3	9.2
20°-30°	224.5	14.0
30°-40°	273.4	17.1
40°-50°	287.5	18.0
50°-60°	263.9	16.5
60°-70°	202.7	12.7
70°-80°	113.1	7.1
80°-90°	34.4	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°	423.1	26.5
0°-40°	696.5	43.6
0°-60°	1247.8	78.1
0°-90°	1598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	540	540	537	540	541	51
15°	522	522	520	522	523	147
25°	488	487	486	488	488	225
35°	440	438	435	436	436	275
45°	378	376	371	369	369	292
55°	306	303	294	289	290	273
65°	219	213	201	198	198	216
75°	121	115	106	92	90	128
85°	28	29	32	31	30	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	541.6	541.6	541.6	541.6	541.6
2.5°	541.6	541.6	539.0	541.6	542.4
5°	539.9	539.9	537.3	539.9	540.7
7.5°	537.3	537.3	534.8	536.5	538.2
10°	533.1	533.1	531.4	533.1	534.0
12.5°	528.9	528.1	526.4	528.1	528.9
15°	522.1	522.1	520.5	522.1	523.0
17.5°	515.4	514.5	512.8	515.4	516.2
20°	506.9	506.1	504.4	506.9	508.6
22.5°	497.6	496.8	496.0	498.5	499.3
25°	488.3	486.7	485.8	487.5	488.3
27.5°	476.5	475.7	474.8	475.7	476.5
30°	465.5	463.8	463.0	463.0	464.7
32.5°	452.0	451.2	450.3	451.2	451.2
35°	440.2	438.5	435.1	436.0	436.0
37.5°	425.8	423.3	420.8	420.8	420.8
40°	410.6	408.9	405.5	404.7	405.5
42.5°	394.6	392.9	389.5	387.0	387.8
45°	378.5	376.0	370.9	369.2	369.2
47.5°	361.6	359.1	353.2	350.6	351.5
50°	343.9	340.5	333.7	330.4	330.4
52.5°	325.3	321.9	315.1	310.9	310.9
55°	305.8	303.3	294.0	289.0	289.8
57.5°	283.9	281.3	272.1	266.1	266.1
60°	264.5	259.4	248.4	244.2	244.2
62.5°	242.5	236.6	225.6	220.5	221.4
65°	218.8	212.9	201.1	198.5	198.5
67.5°	195.2	190.1	179.1	174.9	170.7
70°	169.8	164.8	156.3	146.2	141.1
72.5°	146.2	140.3	132.6	117.4	112.4
75°	120.8	114.9	106.5	92.1	89.6
77.5°	96.3	91.2	79.4	76.0	77.7
80°	71.8	70.1	61.7	65.1	67.6
82.5°	48.2	47.3	49.0	50.7	50.7
85°	27.9	28.7	32.1	31.3	30.4
87.5°	11.8	14.4	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)