

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: P238655

Luminaire Tested: **14ENA-LD2-18-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238655
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-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1628.1 lumens
Efficiency: N/A
Efficacy: 101.8 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

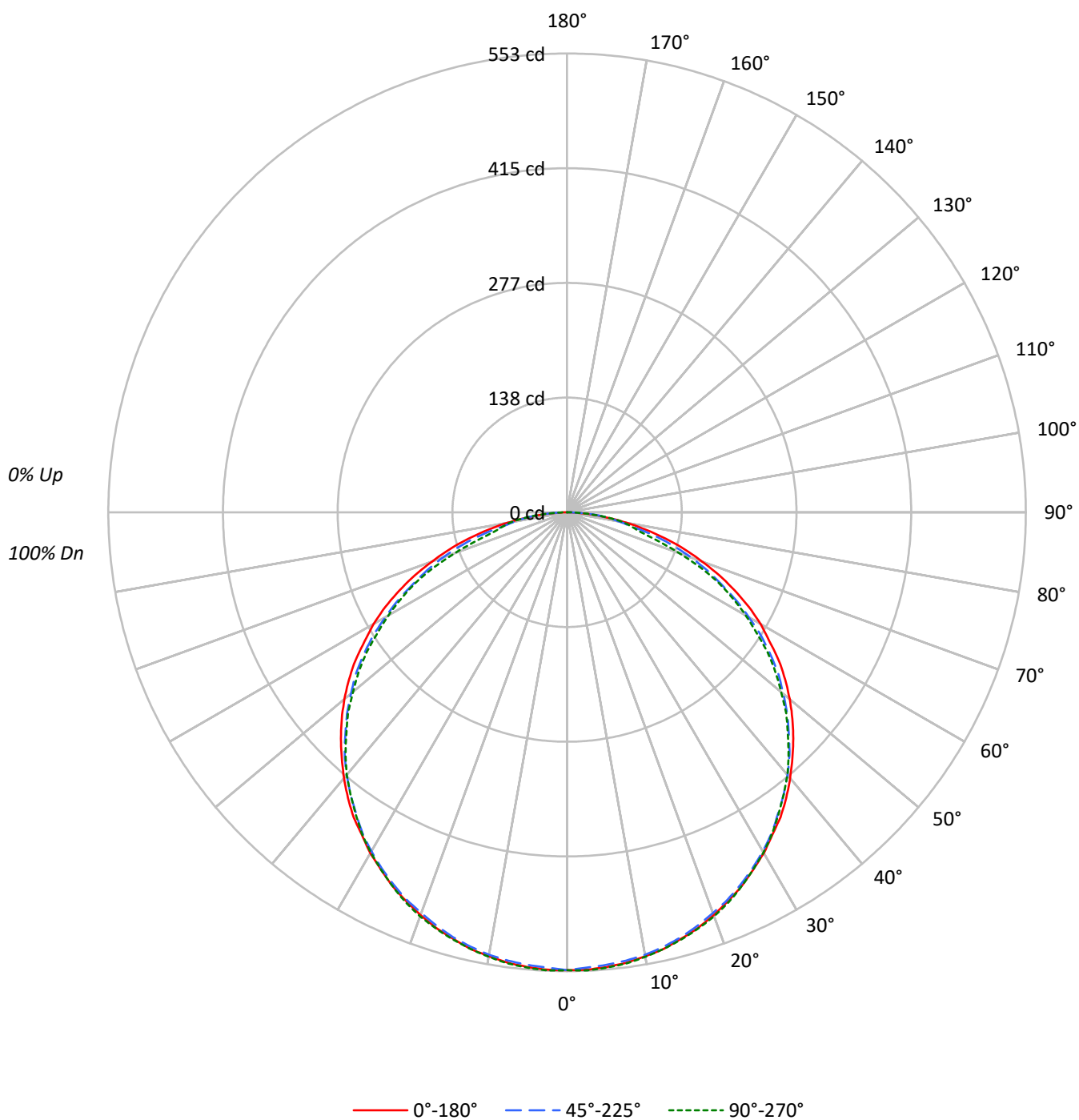
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2324	2324	2324
5°	2325	2315	2329
10°	2323	2316	2327
15°	2320	2312	2323
20°	2315	2303	2323
25°	2312	2300	2312
30°	2307	2294	2302
35°	2306	2279	2284
40°	2300	2272	2272
45°	2297	2251	2241
50°	2295	2228	2206
55°	2288	2200	2168
60°	2269	2132	2096
65°	2222	2042	2016
70°	2130	1961	1771
75°	2003	1766	1484
80°	1776	1523	1671
85°	1372	1580	1498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.2
10°-20°	150.1	9.2
20°-30°	228.7	14.0
30°-40°	278.5	17.1
40°-50°	292.9	18.0
50°-60°	268.8	16.5
60°-70°	206.5	12.7
70°-80°	115.3	7.1
80°-90°	35.0	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°	431.0	26.5
0°-40°	709.6	43.6
0°-60°	1271.3	78.1
0°-90°	1628.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1628.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	550	550	548	550	551	52
15°	532	532	530	532	533	150
25°	498	496	495	497	498	229
35°	448	447	443	444	444	280
45°	386	383	378	376	376	298
55°	312	309	300	294	295	278
65°	223	217	205	202	202	220
75°	123	117	108	94	91	130
85°	28	29	33	32	31	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551.8	551.8	551.8	551.8	551.8
2.5°	551.8	551.8	549.2	551.8	552.6
5°	550.0	550.0	547.5	550.0	550.9
7.5°	547.5	547.5	544.9	546.6	548.3
10°	543.2	543.2	541.4	543.2	544.0
12.5°	538.9	538.0	536.3	538.0	538.9
15°	532.0	532.0	530.2	532.0	532.8
17.5°	525.1	524.2	522.5	525.1	525.9
20°	516.5	515.6	513.9	516.5	518.2
22.5°	507.0	506.1	505.3	507.9	508.7
25°	497.5	495.8	495.0	496.7	497.5
27.5°	485.5	484.6	483.8	484.6	485.5
30°	474.3	472.6	471.7	471.7	473.4
32.5°	460.5	459.7	458.8	459.7	459.7
35°	448.5	446.7	443.3	444.2	444.2
37.5°	433.8	431.3	428.7	428.7	428.7
40°	418.3	416.6	413.2	412.3	413.2
42.5°	402.0	400.3	396.8	394.2	395.1
45°	385.6	383.0	377.9	376.2	376.2
47.5°	368.4	365.8	359.8	357.2	358.1
50°	350.3	346.9	340.0	336.6	336.6
52.5°	331.4	328.0	321.1	316.8	316.8
55°	311.6	309.0	299.6	294.4	295.2
57.5°	289.2	286.6	277.2	271.1	271.1
60°	269.4	264.3	253.1	248.8	248.8
62.5°	247.0	241.0	229.8	224.7	225.5
65°	222.9	216.9	204.9	202.3	202.3
67.5°	198.8	193.7	182.5	178.2	173.9
70°	173.0	167.9	159.2	148.9	143.8
72.5°	148.9	142.9	135.1	119.6	114.5
75°	123.1	117.1	108.5	93.8	91.2
77.5°	98.1	93.0	80.9	77.5	79.2
80°	73.2	71.4	62.8	66.3	68.9
82.5°	49.1	48.2	49.9	51.6	51.6
85°	28.4	29.3	32.7	31.8	31.0
87.5°	12.1	14.6	13.8	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)