

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: P238807

Luminaire Tested: **22ENA-LD2-19-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ENA-LD2-19-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2079.8 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

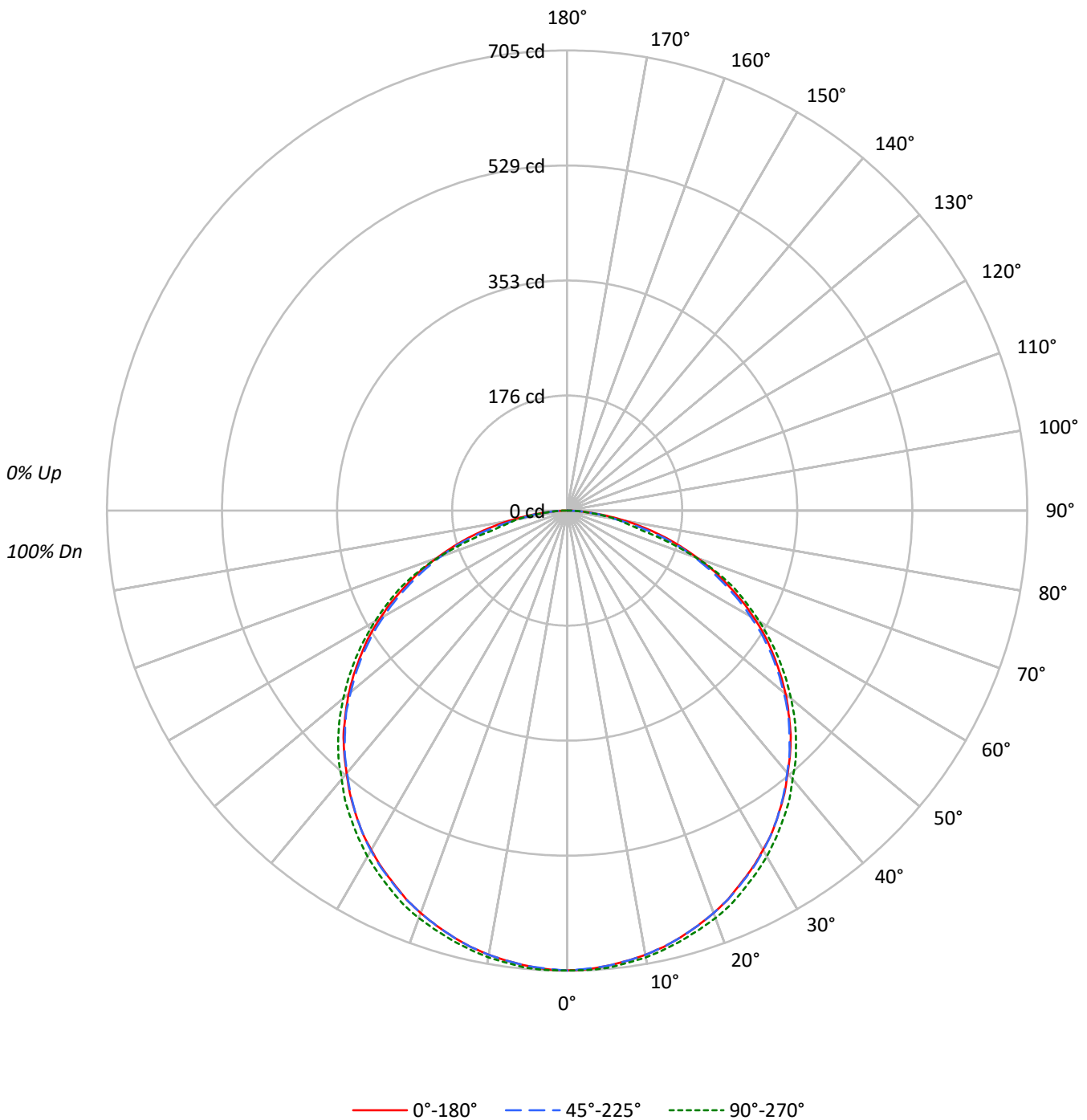
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	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	39	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°	2482	2482	2482
5°	2476	2476	2488
10°	2471	2471	2486
15°	2466	2466	2485
20°	2460	2460	2491
25°	2448	2452	2489
30°	2442	2446	2489
35°	2432	2432	2482
40°	2417	2412	2470
45°	2413	2398	2471
50°	2395	2372	2453
55°	2368	2341	2432
60°	2337	2286	2397
65°	2274	2212	2361
70°	2191	2126	2159
75°	2065	1935	1648
80°	1816	1517	1580
85°	1318	1277	1233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.2
10°-20°	191.3	9.2
20°-30°	292.0	14.0
30°-40°	355.6	17.1
40°-50°	374.3	18.0
50°-60°	344.6	16.6
60°-70°	268.2	12.9
70°-80°	148.9	7.2
80°-90°	38.2	1.8
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°	549.9	26.4
0°-40°	905.5	43.5
0°-60°	1624.4	78.1
0°-90°	2079.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2079.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	700	700	700	702	704	67
15°	676	676	676	679	681	191
25°	630	631	631	636	640	291
35°	566	566	566	572	577	354
45°	484	481	481	489	496	373
55°	386	384	381	388	396	345
65°	273	270	265	274	283	270
75°	152	148	142	126	121	160
85°	33	30	32	30	30	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.6	704.6	704.6	704.6	704.6
2.5°	703.5	702.5	702.5	704.6	704.6
5°	700.3	700.3	700.3	702.5	703.5
7.5°	696.1	696.1	696.1	699.3	699.3
10°	690.9	689.8	690.9	693.0	695.1
12.5°	684.5	683.5	684.5	686.7	688.8
15°	676.1	676.1	676.1	679.3	681.4
17.5°	666.6	665.6	666.6	669.8	673.0
20°	656.1	656.1	656.1	660.3	664.5
22.5°	644.5	643.5	644.5	649.8	654.0
25°	629.8	630.8	630.8	636.1	640.3
27.5°	616.1	615.0	617.1	621.4	626.6
30°	600.3	600.3	601.3	606.6	611.9
32.5°	584.5	583.4	584.5	589.8	595.0
35°	565.5	565.5	565.5	571.9	577.1
37.5°	546.6	545.5	545.5	551.9	559.2
40°	525.5	524.5	524.5	531.8	537.1
42.5°	505.5	504.5	504.5	510.8	518.2
45°	484.4	481.3	481.3	488.7	496.0
47.5°	460.2	458.1	459.2	465.5	472.9
50°	437.1	433.9	432.8	440.2	447.6
52.5°	411.8	410.7	407.6	413.9	422.3
55°	385.5	384.4	381.2	387.6	396.0
57.5°	360.2	357.0	353.9	359.1	368.6
60°	331.7	328.6	324.4	331.7	340.2
62.5°	303.3	299.1	295.9	302.3	311.7
65°	272.8	269.6	265.4	273.8	283.3
67.5°	244.3	241.2	235.9	243.3	249.6
70°	212.7	208.5	206.4	207.5	209.6
72.5°	182.2	180.1	176.9	168.5	166.4
75°	151.7	148.5	142.2	126.4	121.1
77.5°	121.1	119.0	107.4	93.7	93.7
80°	89.5	88.5	74.8	76.9	77.9
82.5°	61.1	59.0	54.8	53.7	53.7
85°	32.6	30.5	31.6	30.5	30.5
87.5°	12.6	12.6	13.7	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)