

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: P238806

Luminaire Tested: **22ENA-LD2-19-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238806
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-L835-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2038.6 lumens
Efficiency: N/A
Efficacy: 123.6 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

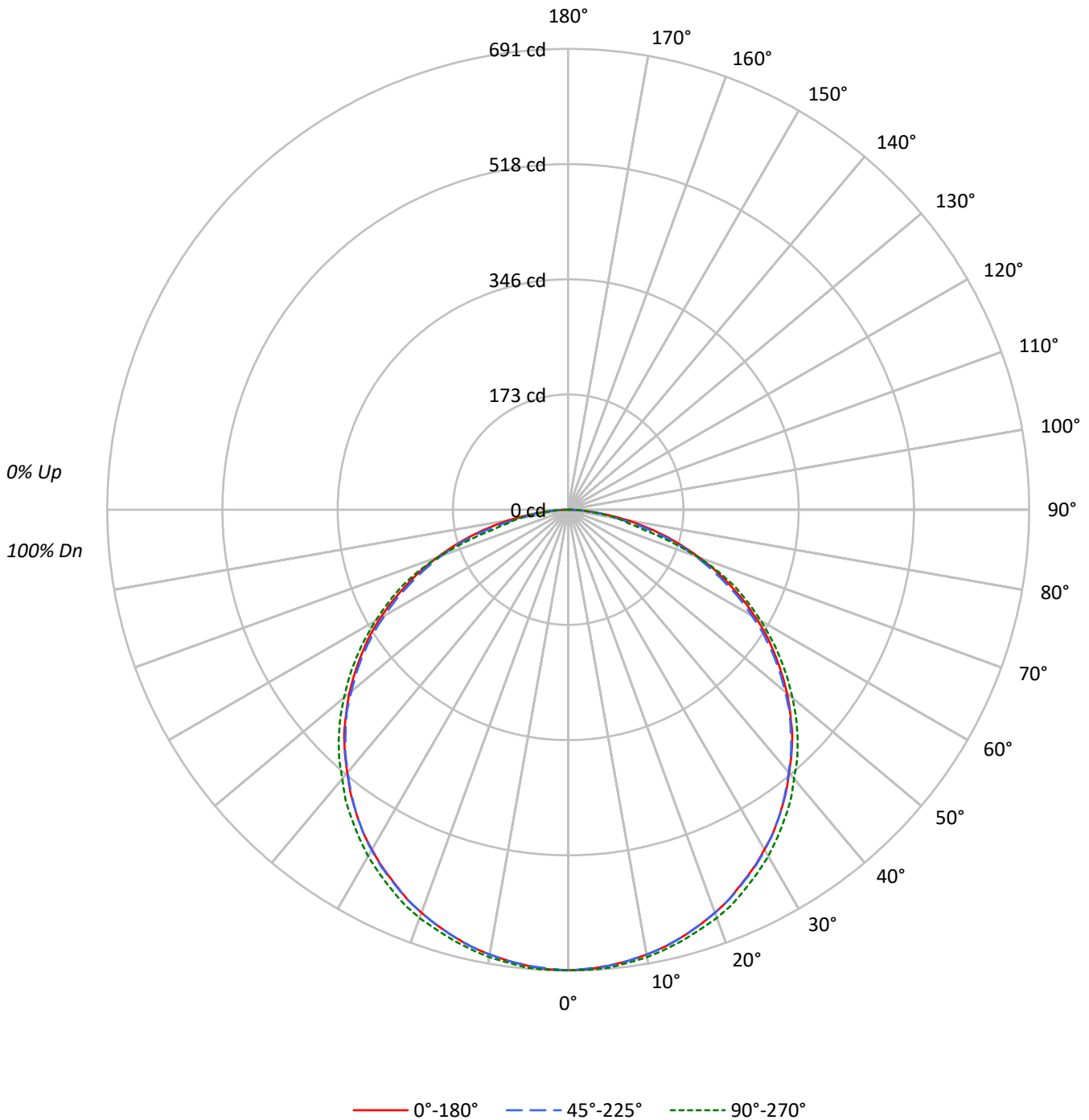
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2433	2433	2433
5°	2428	2428	2439
10°	2422	2422	2437
15°	2417	2417	2436
20°	2411	2411	2442
25°	2399	2403	2439
30°	2393	2398	2440
35°	2384	2384	2433
40°	2369	2364	2421
45°	2366	2350	2422
50°	2348	2325	2404
55°	2320	2295	2384
60°	2291	2240	2349
65°	2229	2168	2315
70°	2148	2084	2116
75°	2024	1897	1616
80°	1779	1487	1550
85°	1293	1253	1209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.2
10°-20°	187.5	9.2
20°-30°	286.2	14.0
30°-40°	348.6	17.1
40°-50°	366.9	18.0
50°-60°	337.8	16.6
60°-70°	262.9	12.9
70°-80°	146.0	7.2
80°-90°	37.5	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°	539.0	26.4
0°-40°	887.5	43.5
0°-60°	1592.3	78.1
0°-90°	2038.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	686	686	686	688	690	65
15°	663	663	663	666	668	187
25°	617	618	618	624	628	285
35°	554	554	554	560	566	347
45°	475	472	472	479	486	366
55°	378	377	374	380	388	338
65°	267	264	260	268	278	265
75°	149	146	139	124	119	157
85°	32	30	31	30	30	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.6	690.6	690.6	690.6	690.6
2.5°	689.6	688.5	688.5	690.6	690.6
5°	686.5	686.5	686.5	688.5	689.6
7.5°	682.4	682.4	682.4	685.4	685.4
10°	677.2	676.2	677.2	679.3	681.3
12.5°	671.0	670.0	671.0	673.1	675.1
15°	662.7	662.7	662.7	665.8	667.9
17.5°	653.4	652.4	653.4	656.5	659.6
20°	643.1	643.1	643.1	647.3	651.4
22.5°	631.8	630.7	631.8	636.9	641.1
25°	617.3	618.3	618.3	623.5	627.6
27.5°	603.9	602.9	604.9	609.1	614.2
30°	588.4	588.4	589.4	594.6	599.8
32.5°	572.9	571.9	572.9	578.1	583.3
35°	554.3	554.3	554.3	560.5	565.7
37.5°	535.8	534.7	534.7	540.9	548.2
40°	515.1	514.1	514.1	521.3	526.5
42.5°	495.5	494.5	494.5	500.7	507.9
45°	474.9	471.8	471.8	479.0	486.2
47.5°	451.1	449.1	450.1	456.3	463.5
50°	428.4	425.3	424.3	431.5	438.7
52.5°	403.6	402.6	399.5	405.7	414.0
55°	377.8	376.8	373.7	379.9	388.1
57.5°	353.0	350.0	346.9	352.0	361.3
60°	325.2	322.1	317.9	325.2	333.4
62.5°	297.3	293.2	290.1	296.3	305.6
65°	267.4	264.3	260.1	268.4	277.7
67.5°	239.5	236.4	231.2	238.5	244.7
70°	208.5	204.4	202.3	203.4	205.4
72.5°	178.6	176.5	173.4	165.2	163.1
75°	148.7	145.6	139.4	123.9	118.7
77.5°	118.7	116.7	105.3	91.9	91.9
80°	87.7	86.7	73.3	75.4	76.4
82.5°	59.9	57.8	53.7	52.6	52.6
85°	32.0	29.9	31.0	29.9	29.9
87.5°	12.4	12.4	13.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)