

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: P238805

Luminaire Tested: **22ENA-LD2-19-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238805
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-L830-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1977.4 lumens
Efficiency: N/A
Efficacy: 119.8 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

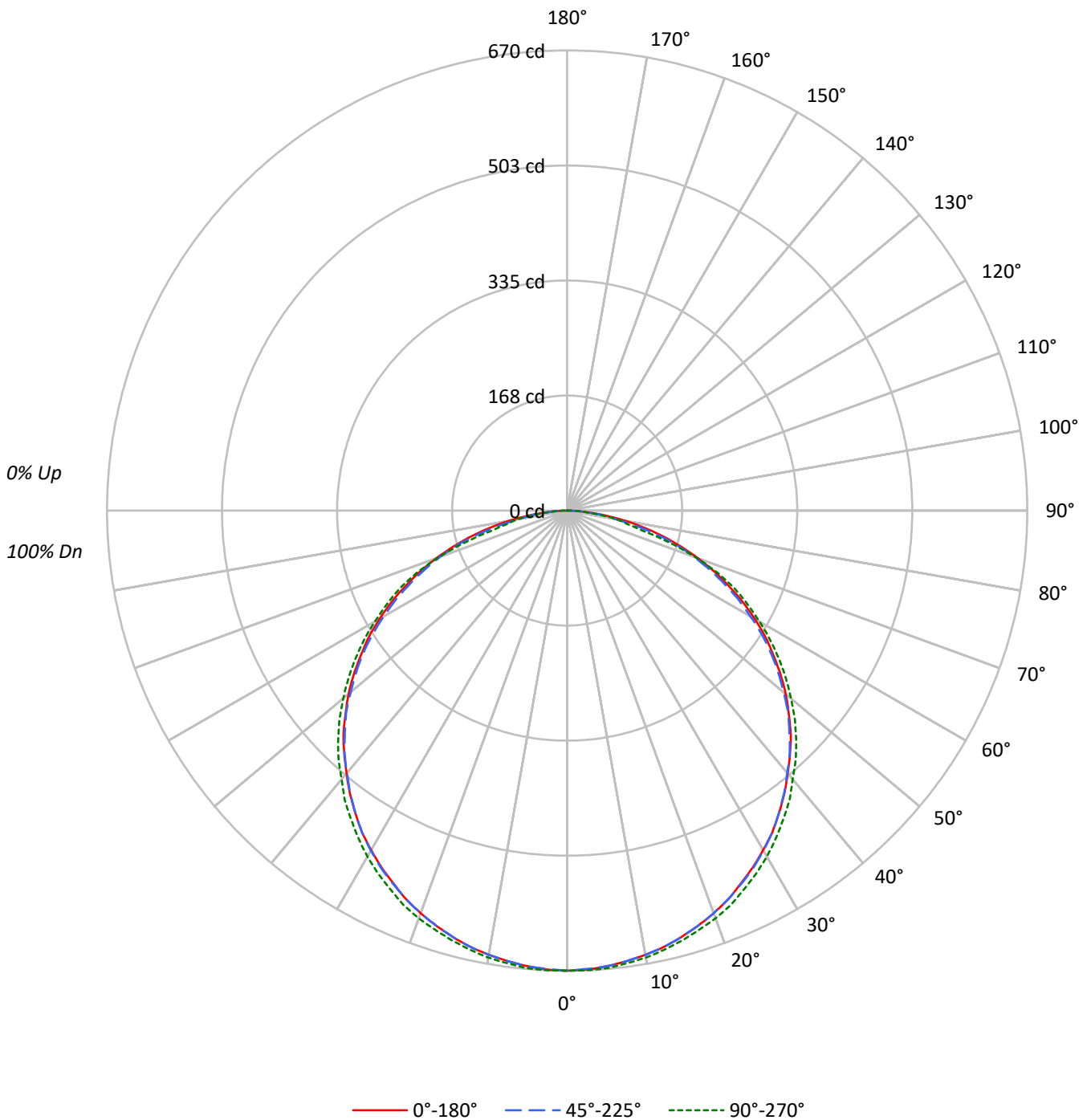
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2360	2360	2360
5°	2355	2355	2365
10°	2349	2349	2364
15°	2344	2344	2363
20°	2339	2339	2369
25°	2327	2331	2366
30°	2321	2326	2366
35°	2312	2312	2360
40°	2297	2293	2349
45°	2295	2280	2349
50°	2277	2255	2332
55°	2251	2226	2312
60°	2222	2173	2279
65°	2161	2103	2245
70°	2084	2022	2053
75°	1963	1840	1567
80°	1726	1442	1503
85°	1253	1213	1172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	3.2
10°-20°	181.8	9.2
20°-30°	277.6	14.0
30°-40°	338.1	17.1
40°-50°	355.9	18.0
50°-60°	327.6	16.6
60°-70°	255.0	12.9
70°-80°	141.6	7.2
80°-90°	36.4	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°	522.8	26.4
0°-40°	860.9	43.5
0°-60°	1544.4	78.1
0°-90°	1977.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1977.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	670	670	670	670	670	
5°	666	666	666	668	669	63
15°	643	643	643	646	648	181
25°	599	600	600	605	609	276
35°	538	538	538	544	549	337
45°	461	458	458	465	472	355
55°	366	366	362	368	376	328
65°	259	256	252	260	269	257
75°	144	141	135	120	115	152
85°	31	29	30	29	29	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	669.9	669.9	669.9	669.9	669.9
2.5°	668.9	667.9	667.9	669.9	669.9
5°	665.9	665.9	665.9	667.9	668.9
7.5°	661.8	661.8	661.8	664.9	664.9
10°	656.8	655.8	656.8	658.8	660.8
12.5°	650.8	649.8	650.8	652.8	654.8
15°	642.8	642.8	642.8	645.8	647.8
17.5°	633.8	632.8	633.8	636.8	639.8
20°	623.8	623.8	623.8	627.8	631.8
22.5°	612.8	611.8	612.8	617.8	621.8
25°	598.8	599.8	599.8	604.8	608.8
27.5°	585.7	584.7	586.8	590.8	595.8
30°	570.7	570.7	571.7	576.7	581.7
32.5°	555.7	554.7	555.7	560.7	565.7
35°	537.7	537.7	537.7	543.7	548.7
37.5°	519.7	518.7	518.7	524.7	531.7
40°	499.6	498.6	498.6	505.6	510.7
42.5°	480.6	479.6	479.6	485.6	492.6
45°	460.6	457.6	457.6	464.6	471.6
47.5°	437.6	435.6	436.6	442.6	449.6
50°	415.5	412.5	411.5	418.5	425.5
52.5°	391.5	390.5	387.5	393.5	401.5
55°	366.5	365.5	362.5	368.5	376.5
57.5°	342.4	339.4	336.4	341.4	350.4
60°	315.4	312.4	308.4	315.4	323.4
62.5°	288.4	284.4	281.4	287.4	296.4
65°	259.3	256.3	252.3	260.3	269.3
67.5°	232.3	229.3	224.3	231.3	237.3
70°	202.3	198.3	196.3	197.3	199.3
72.5°	173.2	171.2	168.2	160.2	158.2
75°	144.2	141.2	135.2	120.2	115.1
77.5°	115.1	113.1	102.1	89.1	89.1
80°	85.1	84.1	71.1	73.1	74.1
82.5°	58.1	56.1	52.1	51.1	51.1
85°	31.0	29.0	30.0	29.0	29.0
87.5°	12.0	12.0	13.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)