

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: P238865

Luminaire Tested: **22ENA-LD2-34-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238865
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-LD2-34-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2836.4 lumens
Efficiency: N/A
Efficacy: 99.5 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

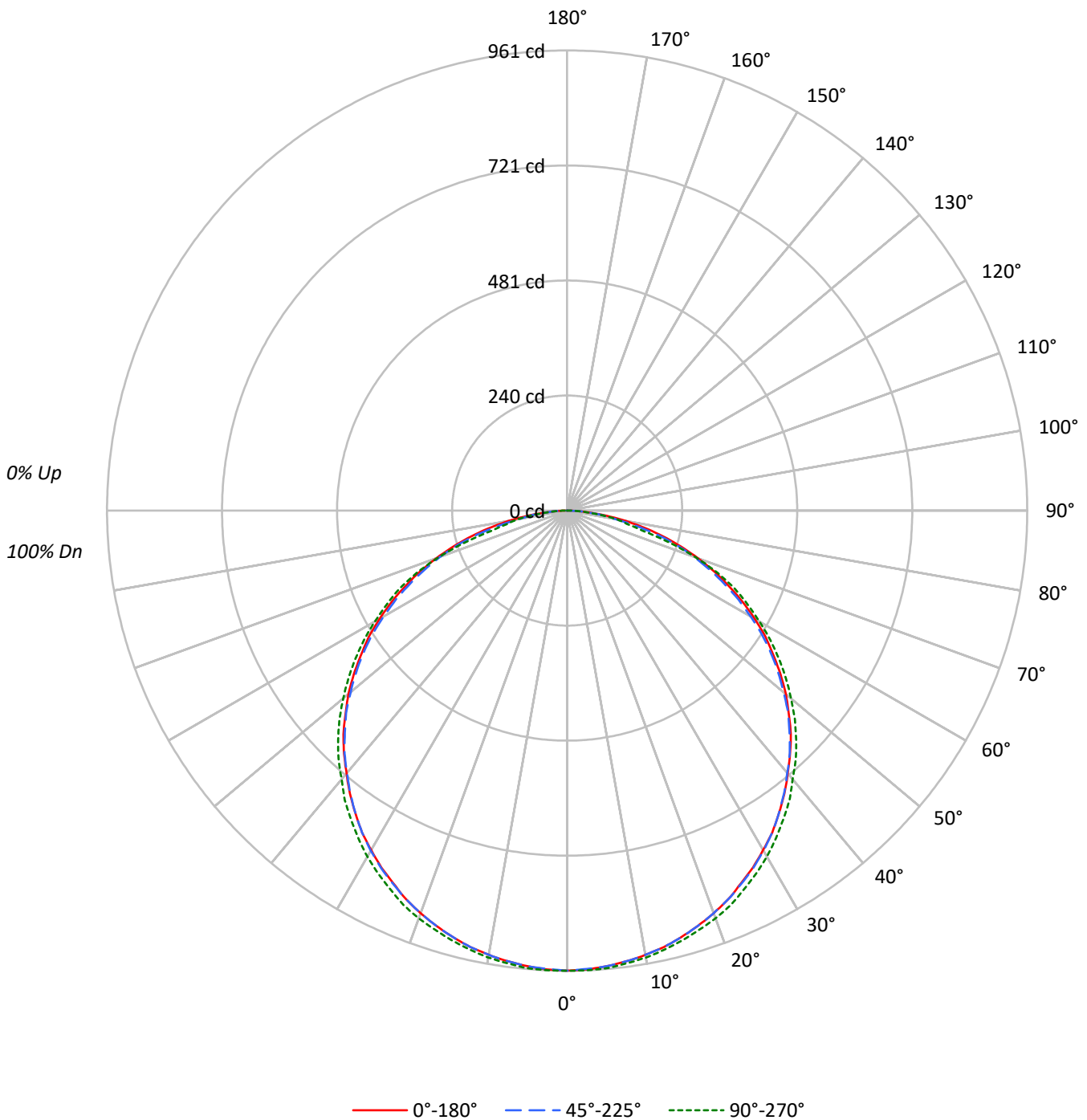
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3385	3385	3385
5°	3377	3377	3393
10°	3370	3370	3391
15°	3363	3363	3389
20°	3354	3354	3398
25°	3338	3344	3394
30°	3330	3336	3394
35°	3317	3317	3385
40°	3296	3289	3368
45°	3292	3270	3370
50°	3267	3235	3345
55°	3229	3193	3317
60°	3187	3117	3268
65°	3101	3017	3221
70°	2988	2899	2944
75°	2815	2639	2249
80°	2477	2069	2156
85°	1799	1742	1685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.2
10°-20°	260.8	9.2
20°-30°	398.2	14.0
30°-40°	485.0	17.1
40°-50°	510.5	18.0
50°-60°	470.0	16.6
60°-70°	365.8	12.9
70°-80°	203.1	7.2
80°-90°	52.2	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°	749.9	26.4
0°-40°	1234.9	43.5
0°-60°	2215.4	78.1
0°-90°	2836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2836.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	955	955	955	958	959	91
15°	922	922	922	926	929	260
25°	859	860	860	868	873	396
35°	771	771	771	780	787	483
45°	661	656	656	666	676	509
55°	526	524	520	529	540	470
65°	372	368	362	373	386	369
75°	207	202	194	172	165	218
85°	44	42	43	42	42	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.9	960.9	960.9	960.9	960.9
2.5°	959.4	958.0	958.0	960.9	960.9
5°	955.1	955.1	955.1	958.0	959.4
7.5°	949.4	949.4	949.4	953.7	953.7
10°	942.2	940.8	942.2	945.1	947.9
12.5°	933.6	932.1	933.6	936.5	939.3
15°	922.1	922.1	922.1	926.4	929.3
17.5°	909.2	907.7	909.2	913.5	917.8
20°	894.8	894.8	894.8	900.5	906.3
22.5°	879.0	877.6	879.0	886.2	891.9
25°	858.9	860.3	860.3	867.5	873.3
27.5°	840.2	838.8	841.7	847.4	854.6
30°	818.7	818.7	820.1	827.3	834.5
32.5°	797.1	795.7	797.1	804.3	811.5
35°	771.3	771.3	771.3	779.9	787.1
37.5°	745.4	744.0	744.0	752.6	762.7
40°	716.7	715.3	715.3	725.3	732.5
42.5°	689.4	688.0	688.0	696.6	706.6
45°	660.7	656.4	656.4	666.4	676.5
47.5°	627.7	624.8	626.2	634.8	644.9
50°	596.1	591.7	590.3	600.4	610.4
52.5°	561.6	560.1	555.8	564.5	575.9
55°	525.7	524.2	519.9	528.6	540.0
57.5°	491.2	486.9	482.6	489.8	502.7
60°	452.4	448.1	442.4	452.4	463.9
62.5°	413.6	407.9	403.6	412.2	425.1
65°	372.0	367.7	361.9	373.4	386.4
67.5°	333.2	328.9	321.7	331.8	340.4
70°	290.1	284.4	281.5	282.9	285.8
72.5°	248.5	245.6	241.3	229.8	226.9
75°	206.8	202.5	193.9	172.4	165.2
77.5°	165.2	162.3	146.5	127.8	127.8
80°	122.1	120.6	102.0	104.8	106.3
82.5°	83.3	80.4	74.7	73.3	73.3
85°	44.5	41.7	43.1	41.7	41.7
87.5°	17.2	17.2	18.7	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)