

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: P238855

Luminaire Tested: **22ENA-LD2-19-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238855
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-L940-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1836.5 lumens
Efficiency: N/A
Efficacy: 111.3 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

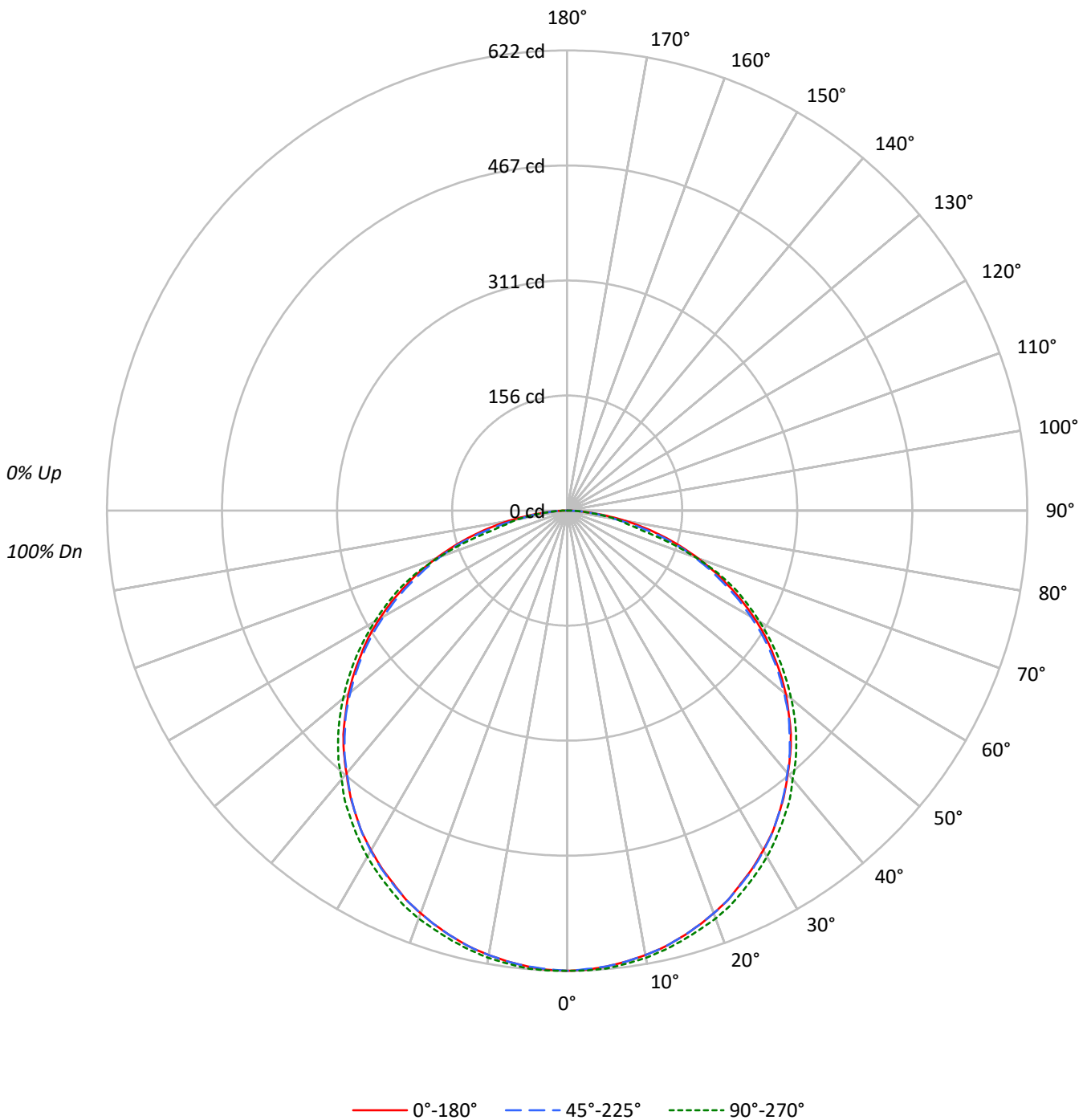
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2191	2191	2191
5°	2187	2187	2197
10°	2182	2182	2196
15°	2177	2177	2194
20°	2172	2172	2200
25°	2162	2165	2198
30°	2156	2160	2198
35°	2148	2148	2192
40°	2134	2130	2181
45°	2131	2117	2182
50°	2115	2095	2166
55°	2091	2067	2148
60°	2064	2018	2116
65°	2008	1953	2086
70°	1934	1878	1906
75°	1822	1708	1455
80°	1603	1339	1396
85°	1164	1128	1091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	3.2
10°-20°	168.9	9.2
20°-30°	257.8	14.0
30°-40°	314.0	17.1
40°-50°	330.5	18.0
50°-60°	304.3	16.6
60°-70°	236.9	12.9
70°-80°	131.5	7.2
80°-90°	33.8	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°	485.5	26.4
0°-40°	799.5	43.5
0°-60°	1434.3	78.1
0°-90°	1836.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	622	622	622	622	622	
5°	618	618	618	620	621	59
15°	597	597	597	600	602	169
25°	556	557	557	562	565	257
35°	499	499	499	505	510	313
45°	428	425	425	432	438	329
55°	340	339	337	342	350	305
65°	241	238	234	242	250	239
75°	134	131	126	112	107	141
85°	29	27	28	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.1	622.1	622.1	622.1	622.1
2.5°	621.2	620.3	620.3	622.1	622.1
5°	618.4	618.4	618.4	620.3	621.2
7.5°	614.7	614.7	614.7	617.5	617.5
10°	610.0	609.1	610.0	611.9	613.8
12.5°	604.5	603.5	604.5	606.3	608.2
15°	597.0	597.0	597.0	599.8	601.7
17.5°	588.6	587.7	588.6	591.4	594.2
20°	579.3	579.3	579.3	583.1	586.8
22.5°	569.1	568.2	569.1	573.8	577.5
25°	556.1	557.0	557.0	561.7	565.4
27.5°	544.0	543.1	544.9	548.7	553.3
30°	530.1	530.1	531.0	535.6	540.3
32.5°	516.1	515.2	516.1	520.8	525.4
35°	499.4	499.4	499.4	505.0	509.6
37.5°	482.6	481.7	481.7	487.3	493.8
40°	464.0	463.1	463.1	469.6	474.3
42.5°	446.4	445.4	445.4	451.0	457.5
45°	427.8	425.0	425.0	431.5	438.0
47.5°	406.4	404.5	405.5	411.0	417.5
50°	385.9	383.1	382.2	388.7	395.2
52.5°	363.6	362.7	359.9	365.5	372.9
55°	340.4	339.4	336.6	342.2	349.7
57.5°	318.0	315.2	312.5	317.1	325.5
60°	292.9	290.1	286.4	292.9	300.4
62.5°	267.8	264.1	261.3	266.9	275.3
65°	240.9	238.1	234.3	241.8	250.2
67.5°	215.7	213.0	208.3	214.8	220.4
70°	187.8	184.1	182.3	183.2	185.1
72.5°	160.9	159.0	156.2	148.8	146.9
75°	133.9	131.1	125.5	111.6	106.9
77.5°	106.9	105.1	94.9	82.8	82.8
80°	79.0	78.1	66.0	67.9	68.8
82.5°	53.9	52.1	48.4	47.4	47.4
85°	28.8	27.0	27.9	27.0	27.0
87.5°	11.2	11.2	12.1	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)