

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: P238856

Luminaire Tested: **22ENA-LD2-19-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238856
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1945.8 lumens
Efficiency: N/A
Efficacy: 117.9 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

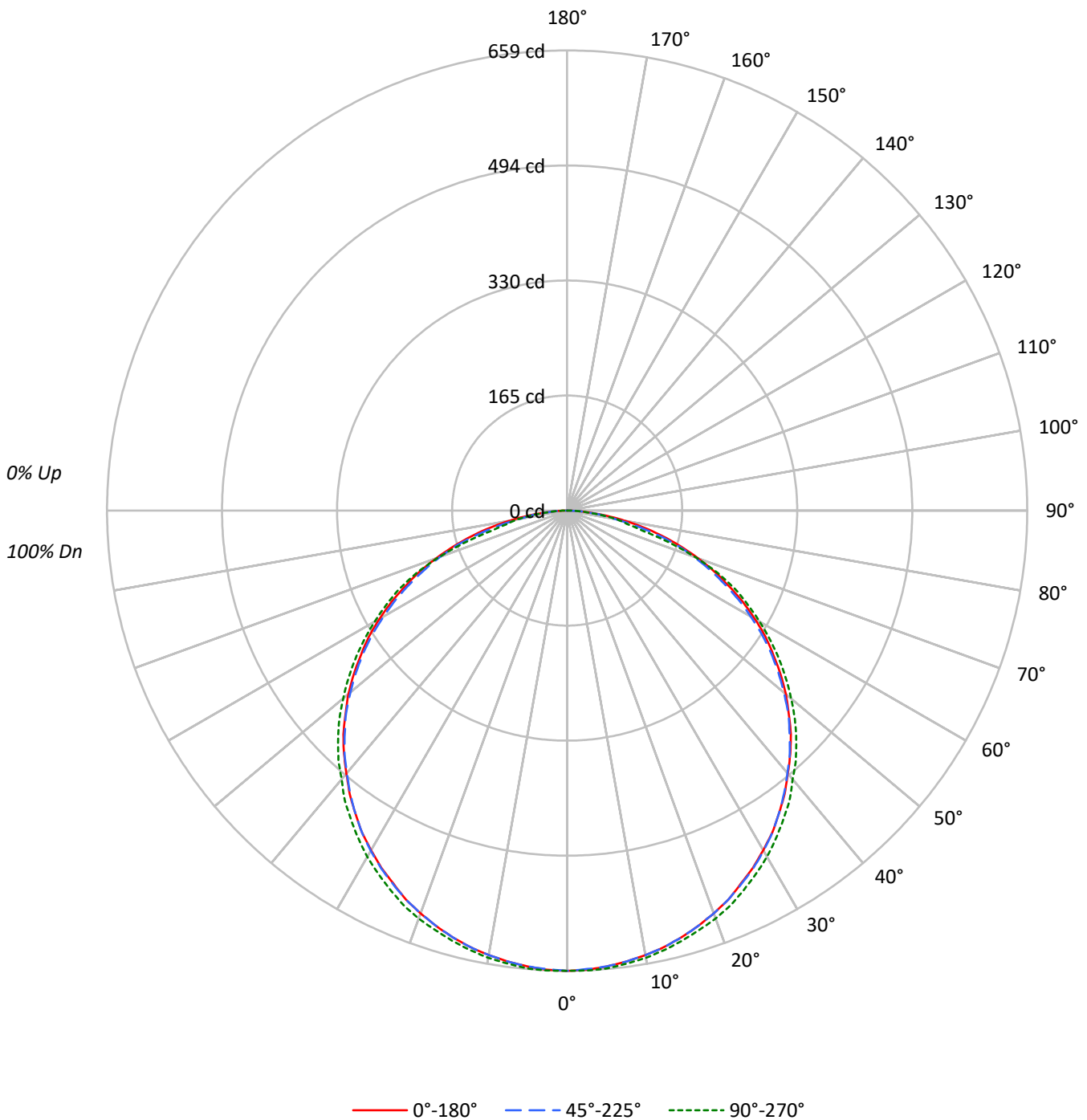
Input Watts (W): 16.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2322	2322	2322
5°	2317	2317	2328
10°	2312	2312	2326
15°	2307	2307	2325
20°	2301	2301	2331
25°	2290	2294	2329
30°	2284	2288	2329
35°	2275	2275	2322
40°	2261	2257	2311
45°	2258	2243	2312
50°	2241	2220	2295
55°	2215	2191	2276
60°	2187	2138	2243
65°	2127	2070	2209
70°	2050	1989	2020
75°	1931	1810	1542
80°	1700	1420	1479
85°	1233	1196	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.2
10°-20°	178.9	9.2
20°-30°	273.2	14.0
30°-40°	332.7	17.1
40°-50°	350.2	18.0
50°-60°	322.4	16.6
60°-70°	251.0	12.9
70°-80°	139.3	7.2
80°-90°	35.8	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°	514.4	26.4
0°-40°	847.1	43.5
0°-60°	1519.8	78.1
0°-90°	1945.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	655	655	655	657	658	62
15°	633	633	633	636	638	179
25°	589	590	590	595	599	272
35°	529	529	529	535	540	331
45°	453	450	450	457	464	349
55°	361	360	357	363	370	323
65°	255	252	248	256	265	253
75°	142	139	133	118	113	150
85°	30	29	30	29	29	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	659.2	659.2	659.2	659.2	659.2
2.5°	658.2	657.2	657.2	659.2	659.2
5°	655.2	655.2	655.2	657.2	658.2
7.5°	651.3	651.3	651.3	654.2	654.2
10°	646.4	645.4	646.4	648.3	650.3
12.5°	640.4	639.5	640.4	642.4	644.4
15°	632.6	632.6	632.6	635.5	637.5
17.5°	623.7	622.7	623.7	626.7	629.6
20°	613.8	613.8	613.8	617.8	621.7
22.5°	603.0	602.0	603.0	607.9	611.9
25°	589.2	590.2	590.2	595.1	599.1
27.5°	576.4	575.4	577.4	581.3	586.3
30°	561.6	561.6	562.6	567.5	572.5
32.5°	546.8	545.9	546.8	551.8	556.7
35°	529.1	529.1	529.1	535.0	539.9
37.5°	511.4	510.4	510.4	516.3	523.2
40°	491.7	490.7	490.7	497.6	502.5
42.5°	472.9	472.0	472.0	477.9	484.8
45°	453.2	450.3	450.3	457.2	464.1
47.5°	430.6	428.6	429.6	435.5	442.4
50°	408.9	405.9	405.0	411.9	418.8
52.5°	385.3	384.3	381.3	387.2	395.1
55°	360.6	359.6	356.7	362.6	370.5
57.5°	337.0	334.0	331.1	336.0	344.9
60°	310.4	307.4	303.5	310.4	318.3
62.5°	283.8	279.8	276.9	282.8	291.6
65°	255.2	252.2	248.3	256.2	265.0
67.5°	228.6	225.6	220.7	227.6	233.5
70°	199.0	195.1	193.1	194.1	196.1
72.5°	170.5	168.5	165.5	157.6	155.7
75°	141.9	138.9	133.0	118.2	113.3
77.5°	113.3	111.3	100.5	87.7	87.7
80°	83.8	82.8	70.0	71.9	72.9
82.5°	57.1	55.2	51.2	50.3	50.3
85°	30.5	28.6	29.6	28.6	28.6
87.5°	11.8	11.8	12.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)