

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: P238819

Luminaire Tested: **22ENA-LD2-34-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238819
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-L840-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.6 lumens
Efficiency: N/A
Efficacy: 121.1 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

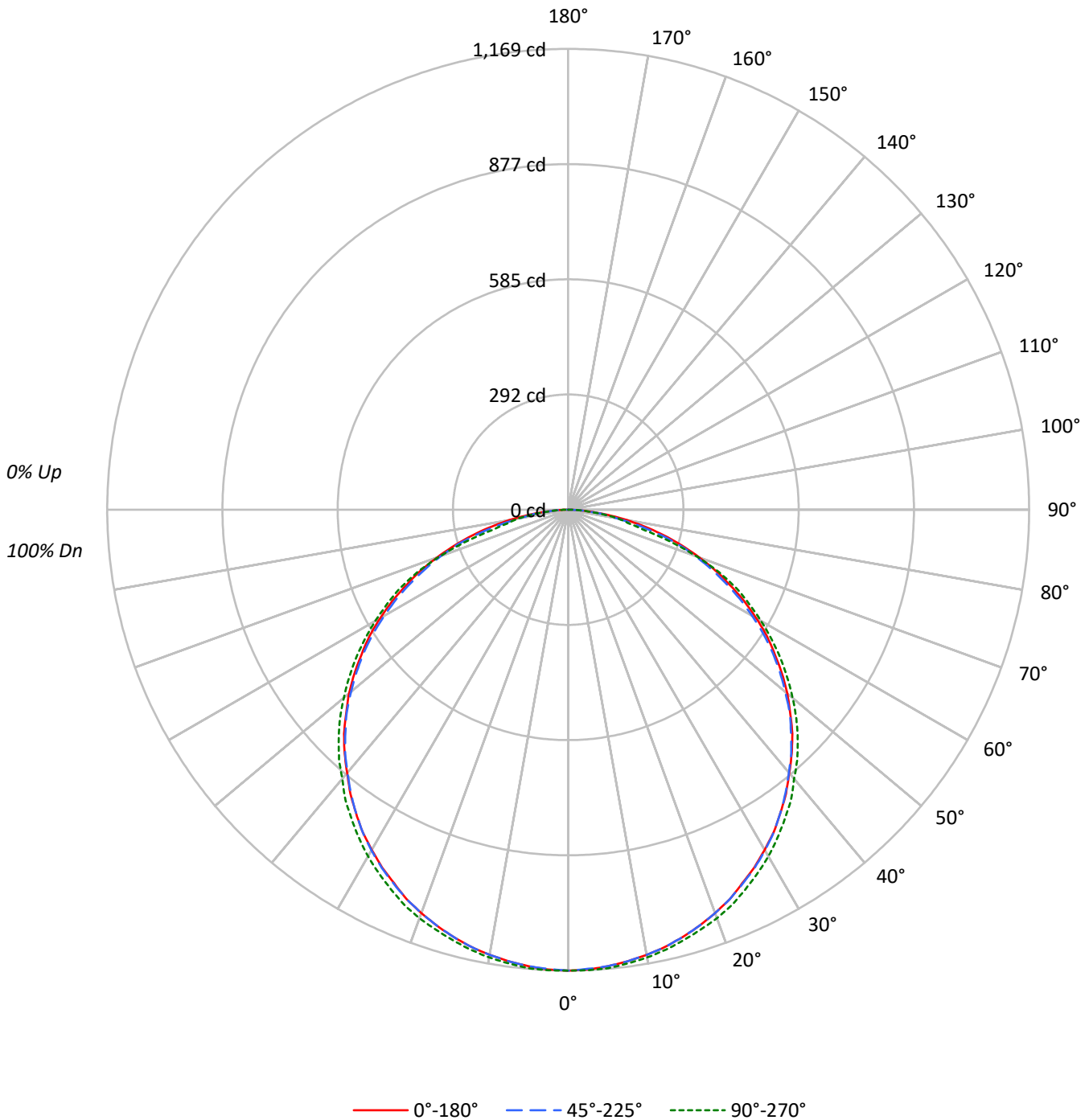
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4119	4119	4119
5°	4110	4110	4129
10°	4101	4101	4126
15°	4092	4092	4124
20°	4082	4082	4135
25°	4063	4069	4131
30°	4052	4060	4131
35°	4036	4036	4119
40°	4010	4003	4099
45°	4005	3979	4101
50°	3975	3937	4071
55°	3929	3886	4036
60°	3879	3793	3977
65°	3773	3671	3919
70°	3637	3529	3582
75°	3426	3212	2736
80°	3015	2518	2623
85°	2191	2118	2049



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.2
10°-20°	317.4	9.2
20°-30°	484.5	14.0
30°-40°	590.2	17.1
40°-50°	621.2	18.0
50°-60°	571.9	16.6
60°-70°	445.2	12.9
70°-80°	247.1	7.2
80°-90°	63.5	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°	912.5	26.4
0°-40°	1502.7	43.5
0°-60°	2695.8	78.1
0°-90°	3451.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1162	1162	1162	1166	1168	110
15°	1122	1122	1122	1127	1131	317
25°	1045	1047	1047	1056	1063	482
35°	939	939	939	949	958	587
45°	804	799	799	811	823	619
55°	640	638	633	643	657	572
65°	453	447	440	454	470	449
75°	252	246	236	210	201	265
85°	54	51	52	51	51	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.3	1169.3	1169.3	1169.3	1169.3
2.5°	1167.5	1165.8	1165.8	1169.3	1169.3
5°	1162.3	1162.3	1162.3	1165.8	1167.5
7.5°	1155.3	1155.3	1155.3	1160.5	1160.5
10°	1146.6	1144.8	1146.6	1150.0	1153.5
12.5°	1136.1	1134.3	1136.1	1139.6	1143.1
15°	1122.1	1122.1	1122.1	1127.3	1130.8
17.5°	1106.4	1104.6	1106.4	1111.6	1116.8
20°	1088.9	1088.9	1088.9	1095.9	1102.9
22.5°	1069.6	1067.9	1069.6	1078.4	1085.4
25°	1045.2	1046.9	1046.9	1055.7	1062.7
27.5°	1022.5	1020.7	1024.2	1031.2	1039.9
30°	996.2	996.2	998.0	1006.7	1015.5
32.5°	970.0	968.3	970.0	978.8	987.5
35°	938.6	938.6	938.6	949.1	957.8
37.5°	907.1	905.4	905.4	915.8	928.1
40°	872.1	870.4	870.4	882.6	891.4
42.5°	838.9	837.2	837.2	847.7	859.9
45°	804.0	798.7	798.7	811.0	823.2
47.5°	763.8	760.3	762.0	772.5	784.8
50°	725.3	720.1	718.3	730.6	742.8
52.5°	683.4	681.6	676.4	686.9	700.9
55°	639.7	637.9	632.7	643.2	657.2
57.5°	597.7	592.5	587.3	596.0	611.7
60°	550.6	545.3	538.3	550.6	564.5
62.5°	503.4	496.4	491.1	501.6	517.3
65°	452.7	447.4	440.4	454.4	470.2
67.5°	405.5	400.2	391.5	403.7	414.2
70°	353.1	346.1	342.6	344.3	347.8
72.5°	302.4	298.9	293.6	279.6	276.2
75°	251.7	246.4	236.0	209.7	201.0
77.5°	201.0	197.5	178.3	155.6	155.6
80°	148.6	146.8	124.1	127.6	129.3
82.5°	101.4	97.9	90.9	89.1	89.1
85°	54.2	50.7	52.4	50.7	50.7
87.5°	21.0	21.0	22.7	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)