

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: P238871

Luminaire Tested: **22ENA-LD2-39-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238871
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-LD2-39-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: 3493.8 lumens
Efficiency: N/A
Efficacy: 104.9 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

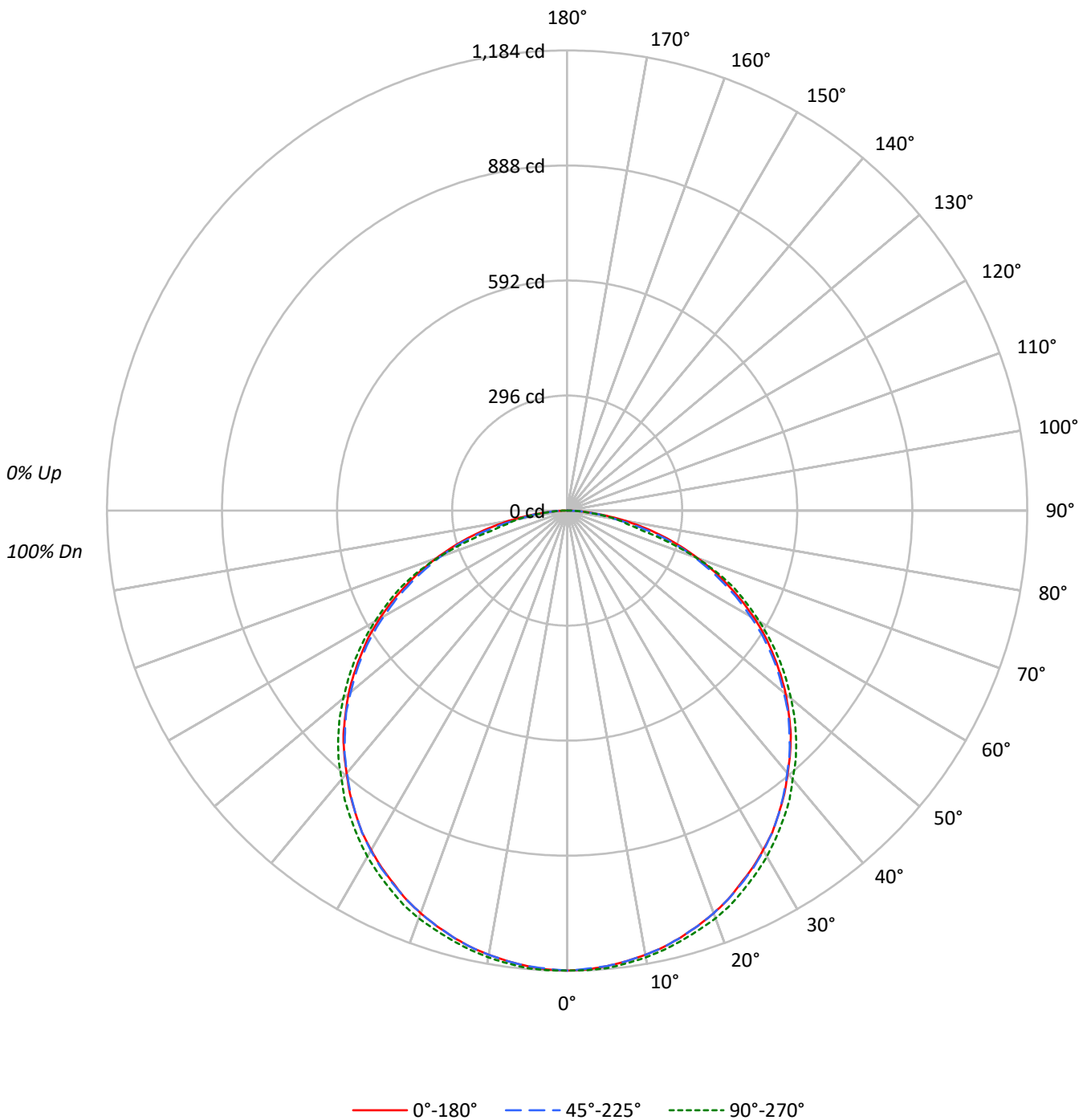
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4170	4170	4170
5°	4160	4160	4179
10°	4152	4152	4177
15°	4142	4142	4174
20°	4132	4132	4185
25°	4112	4119	4181
30°	4102	4109	4181
35°	4085	4085	4169
40°	4060	4051	4149
45°	4054	4028	4151
50°	4024	3985	4121
55°	3977	3933	4085
60°	3926	3839	4026
65°	3819	3716	3967
70°	3681	3572	3627
75°	3468	3250	2770
80°	3051	2548	2656
85°	2215	2146	2073



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	3.2
10°-20°	321.3	9.2
20°-30°	490.5	14.0
30°-40°	597.4	17.1
40°-50°	628.8	18.0
50°-60°	578.9	16.6
60°-70°	450.6	12.9
70°-80°	250.1	7.2
80°-90°	64.3	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°	923.7	26.4
0°-40°	1521.1	43.5
0°-60°	2728.8	78.1
0°-90°	3493.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1176	1176	1176	1180	1182	112
15°	1136	1136	1136	1141	1145	321
25°	1058	1060	1060	1069	1076	488
35°	950	950	950	961	970	595
45°	814	808	808	821	833	627
55°	648	646	640	651	665	579
65°	458	453	446	460	476	454
75°	255	250	239	212	204	269
85°	55	51	53	51	51	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.6	1183.6	1183.6	1183.6	1183.6
2.5°	1181.8	1180.0	1180.0	1183.6	1183.6
5°	1176.5	1176.5	1176.5	1180.0	1181.8
7.5°	1169.4	1169.4	1169.4	1174.7	1174.7
10°	1160.6	1158.8	1160.6	1164.1	1167.6
12.5°	1150.0	1148.2	1150.0	1153.5	1157.0
15°	1135.8	1135.8	1135.8	1141.1	1144.6
17.5°	1119.9	1118.1	1119.9	1125.2	1130.5
20°	1102.2	1102.2	1102.2	1109.3	1116.3
22.5°	1082.7	1081.0	1082.7	1091.6	1098.6
25°	1058.0	1059.7	1059.7	1068.6	1075.6
27.5°	1035.0	1033.2	1036.7	1043.8	1052.7
30°	1008.4	1008.4	1010.2	1019.0	1027.9
32.5°	981.9	980.1	981.9	990.7	999.6
35°	950.0	950.0	950.0	960.7	969.5
37.5°	918.2	916.4	916.4	927.0	939.4
40°	882.8	881.0	881.0	893.4	902.3
42.5°	849.2	847.4	847.4	858.0	870.4
45°	813.8	808.5	808.5	820.9	833.3
47.5°	773.1	769.6	771.4	782.0	794.4
50°	734.2	728.9	727.1	739.5	751.9
52.5°	691.7	690.0	684.7	695.3	709.4
55°	647.5	645.7	640.4	651.1	665.2
57.5°	605.1	599.7	594.4	603.3	619.2
60°	557.3	552.0	544.9	557.3	571.4
62.5°	509.5	502.4	497.1	507.7	523.7
65°	458.2	452.9	445.8	460.0	475.9
67.5°	410.4	405.1	396.3	408.7	419.3
70°	357.4	350.3	346.8	348.5	352.1
72.5°	306.1	302.5	297.2	283.1	279.5
75°	254.8	249.5	238.8	212.3	203.5
77.5°	203.5	199.9	180.5	157.5	157.5
80°	150.4	148.6	125.6	129.1	130.9
82.5°	102.6	99.1	92.0	90.2	90.2
85°	54.8	51.3	53.1	51.3	51.3
87.5°	21.2	21.2	23.0	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)