

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: P238667

Luminaire Tested: **14ENA-LD2-33-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ENA-LD2-33-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2920.2 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

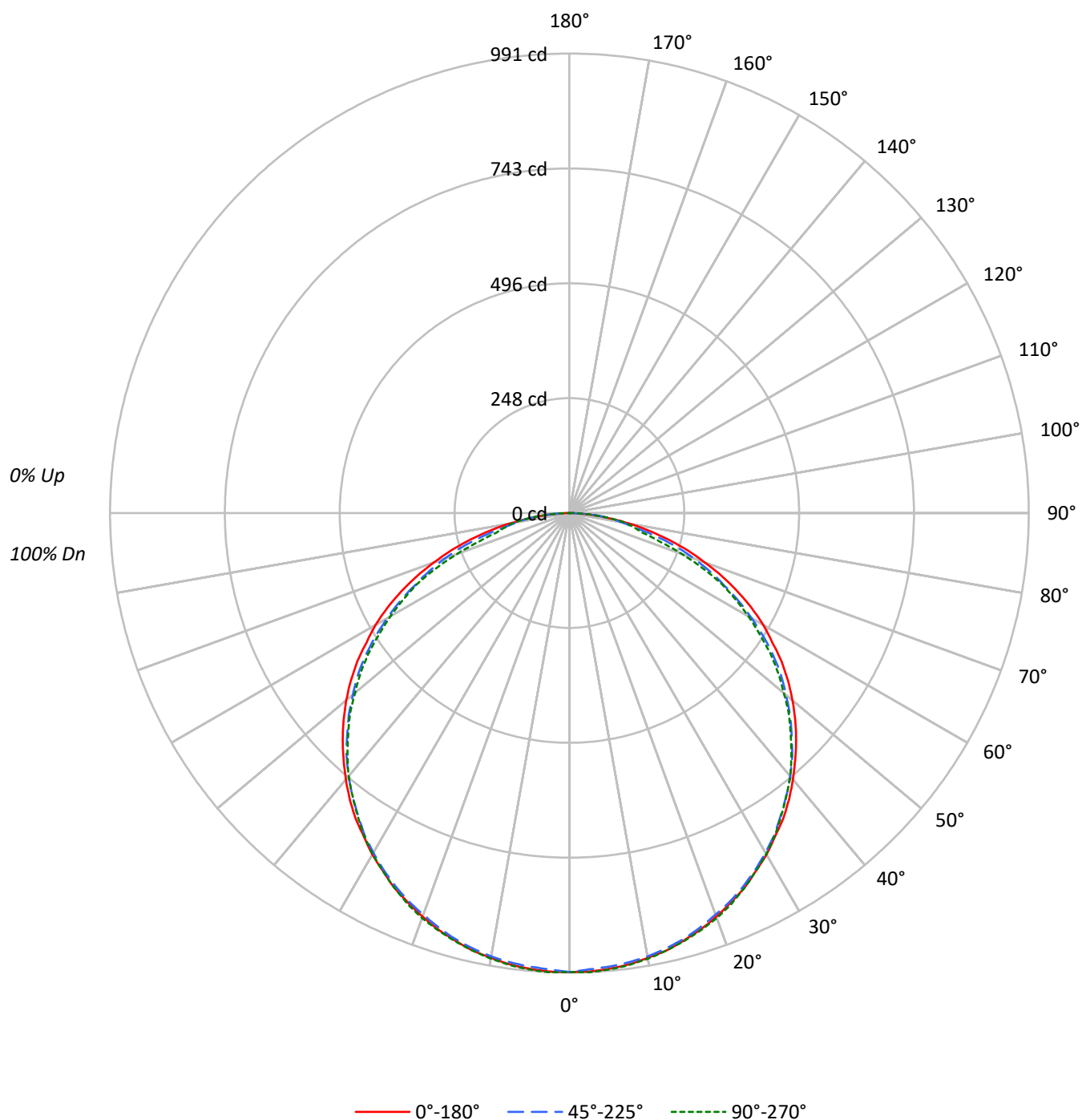
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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	97	94	97	94	91	93	90	88	90	87	85	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	40	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°	4169	4169	4169
5°	4171	4152	4178
10°	4167	4153	4173
15°	4161	4147	4167
20°	4152	4131	4166
25°	4147	4126	4147
30°	4137	4115	4130
35°	4136	4088	4097
40°	4126	4075	4075
45°	4120	4037	4019
50°	4118	3996	3956
55°	4104	3946	3889
60°	4071	3824	3759
65°	3986	3663	3616
70°	3821	3517	3175
75°	3593	3165	2664
80°	3182	2734	2996
85°	2465	2837	2687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.2
10°-20°	269.2	9.2
20°-30°	410.3	14.0
30°-40°	499.6	17.1
40°-50°	525.3	18.0
50°-60°	482.2	16.5
60°-70°	370.5	12.7
70°-80°	206.8	7.1
80°-90°	62.8	2.1
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°	773.1	26.5
0°-40°	1272.7	43.6
0°-60°	2280.2	78.1
0°-90°	2920.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	987	987	982	987	988	94
15°	954	954	951	954	956	270
25°	892	889	888	891	892	411
35°	804	801	795	797	797	503
45°	692	687	678	675	675	534
55°	559	554	537	528	530	498
65°	400	389	368	363	363	395
75°	221	210	194	168	164	233
85°	51	52	59	57	56	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989.7	989.7	989.7	989.7	989.7
2.5°	989.7	989.7	985.0	989.7	991.2
5°	986.6	986.6	981.9	986.6	988.1
7.5°	981.9	981.9	977.3	980.4	983.5
10°	974.2	974.2	971.1	974.2	975.8
12.5°	966.5	965.0	961.9	965.0	966.5
15°	954.2	954.2	951.1	954.2	955.7
17.5°	941.8	940.3	937.2	941.8	943.3
20°	926.4	924.8	921.7	926.4	929.5
22.5°	909.4	907.8	906.3	910.9	912.5
25°	892.4	889.3	887.8	890.9	892.4
27.5°	870.8	869.2	867.7	869.2	870.8
30°	850.7	847.6	846.1	846.1	849.2
32.5°	826.0	824.5	822.9	824.5	824.5
35°	804.4	801.3	795.1	796.7	796.7
37.5°	778.1	773.5	768.9	768.9	768.9
40°	750.4	747.3	741.1	739.5	741.1
42.5°	721.0	717.9	711.8	707.1	708.7
45°	691.7	687.1	677.8	674.7	674.7
47.5°	660.8	656.2	645.4	640.7	642.3
50°	628.4	622.2	609.9	603.7	603.7
52.5°	594.4	588.2	575.9	568.2	568.2
55°	558.9	554.3	537.3	528.0	529.6
57.5°	518.8	514.1	497.1	486.3	486.3
60°	483.3	474.0	453.9	446.2	446.2
62.5°	443.1	432.3	412.2	403.0	404.5
65°	399.9	389.1	367.5	362.8	362.8
67.5°	356.7	347.4	327.3	319.6	311.9
70°	310.3	301.1	285.6	267.1	257.8
72.5°	267.1	256.3	242.4	214.6	205.3
75°	220.8	210.0	194.5	168.3	163.7
77.5°	176.0	166.7	145.1	139.0	142.0
80°	131.2	128.1	112.7	118.9	123.5
82.5°	88.0	86.5	89.5	92.6	92.6
85°	51.0	52.5	58.7	57.1	55.6
87.5°	21.6	26.2	24.7	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)