

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: P238702

Luminaire Tested: **14EN-LD2-38-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238702
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: 14EN-LD2-38-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304.5 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

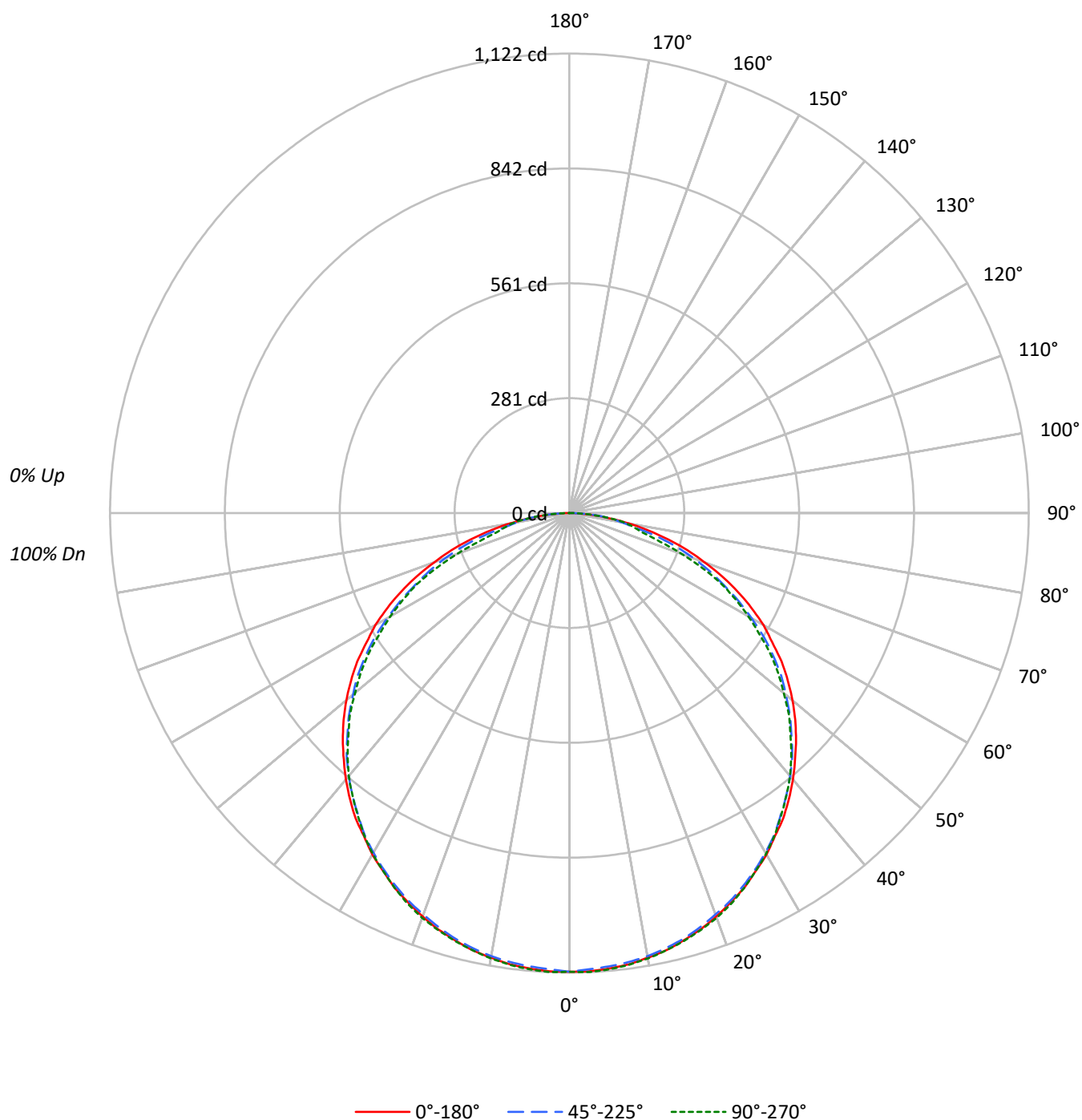
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3145	3145	3145
5°	3147	3132	3152
10°	3143	3133	3148
15°	3139	3129	3144
20°	3133	3117	3143
25°	3129	3113	3129
30°	3121	3104	3116
35°	3120	3084	3090
40°	3112	3074	3074
45°	3108	3046	3032
50°	3106	3015	2984
55°	3096	2977	2934
60°	3071	2885	2835
65°	3007	2763	2728
70°	2883	2653	2396
75°	2710	2388	2009
80°	2401	2062	2261
85°	1859	2139	2027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	3.2
10°-20°	304.6	9.2
20°-30°	464.3	14.0
30°-40°	565.4	17.1
40°-50°	594.4	18.0
50°-60°	545.6	16.5
60°-70°	419.2	12.7
70°-80°	234.0	7.1
80°-90°	71.0	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°	874.9	26.5
0°-40°	1440.2	43.6
0°-60°	2580.3	78.1
0°-90°	3304.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3304.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1116	1116	1111	1116	1118	106
15°	1080	1080	1076	1080	1082	305
25°	1010	1006	1005	1008	1010	465
35°	910	907	900	902	902	569
45°	783	778	767	764	764	604
55°	632	627	608	598	599	564
65°	452	440	416	411	411	447
75°	250	238	220	190	185	264
85°	58	59	66	65	63	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.9	1119.9	1119.9	1119.9	1119.9
2.5°	1119.9	1119.9	1114.7	1119.9	1121.7
5°	1116.4	1116.4	1111.2	1116.4	1118.2
7.5°	1111.2	1111.2	1105.9	1109.4	1112.9
10°	1102.4	1102.4	1098.9	1102.4	1104.2
12.5°	1093.7	1092.0	1088.5	1092.0	1093.7
15°	1079.7	1079.7	1076.2	1079.7	1081.5
17.5°	1065.8	1064.0	1060.5	1065.8	1067.5
20°	1048.3	1046.5	1043.0	1048.3	1051.8
22.5°	1029.1	1027.3	1025.6	1030.8	1032.6
25°	1009.8	1006.4	1004.6	1008.1	1009.8
27.5°	985.4	983.6	981.9	983.6	985.4
30°	962.7	959.2	957.4	957.4	960.9
32.5°	934.7	933.0	931.2	933.0	933.0
35°	910.3	906.8	899.8	901.5	901.5
37.5°	880.6	875.3	870.1	870.1	870.1
40°	849.1	845.6	838.6	836.9	838.6
42.5°	815.9	812.4	805.4	800.2	801.9
45°	782.7	777.5	767.0	763.5	763.5
47.5°	747.8	742.5	730.3	725.1	726.8
50°	711.1	704.1	690.1	683.1	683.1
52.5°	672.6	665.7	651.7	642.9	642.9
55°	632.5	627.2	608.0	597.5	599.3
57.5°	587.0	581.8	562.6	550.3	550.3
60°	546.9	536.4	513.7	504.9	504.9
62.5°	501.4	489.2	466.5	456.0	457.7
65°	452.5	440.3	415.8	410.6	410.6
67.5°	403.6	393.1	370.4	361.7	352.9
70°	351.2	340.7	323.2	302.3	291.8
72.5°	302.3	290.0	274.3	242.9	232.4
75°	249.8	237.6	220.1	190.4	185.2
77.5°	199.2	188.7	164.2	157.2	160.7
80°	148.5	145.0	127.5	134.5	139.8
82.5°	99.6	97.8	101.3	104.8	104.8
85°	57.7	59.4	66.4	64.6	62.9
87.5°	24.5	29.7	28.0	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)