

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: P238705

Luminaire Tested: **14EN-LD2-43-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238705
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-LD2-43-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3632.3 lumens
Efficiency: N/A
Efficacy: 96.6 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

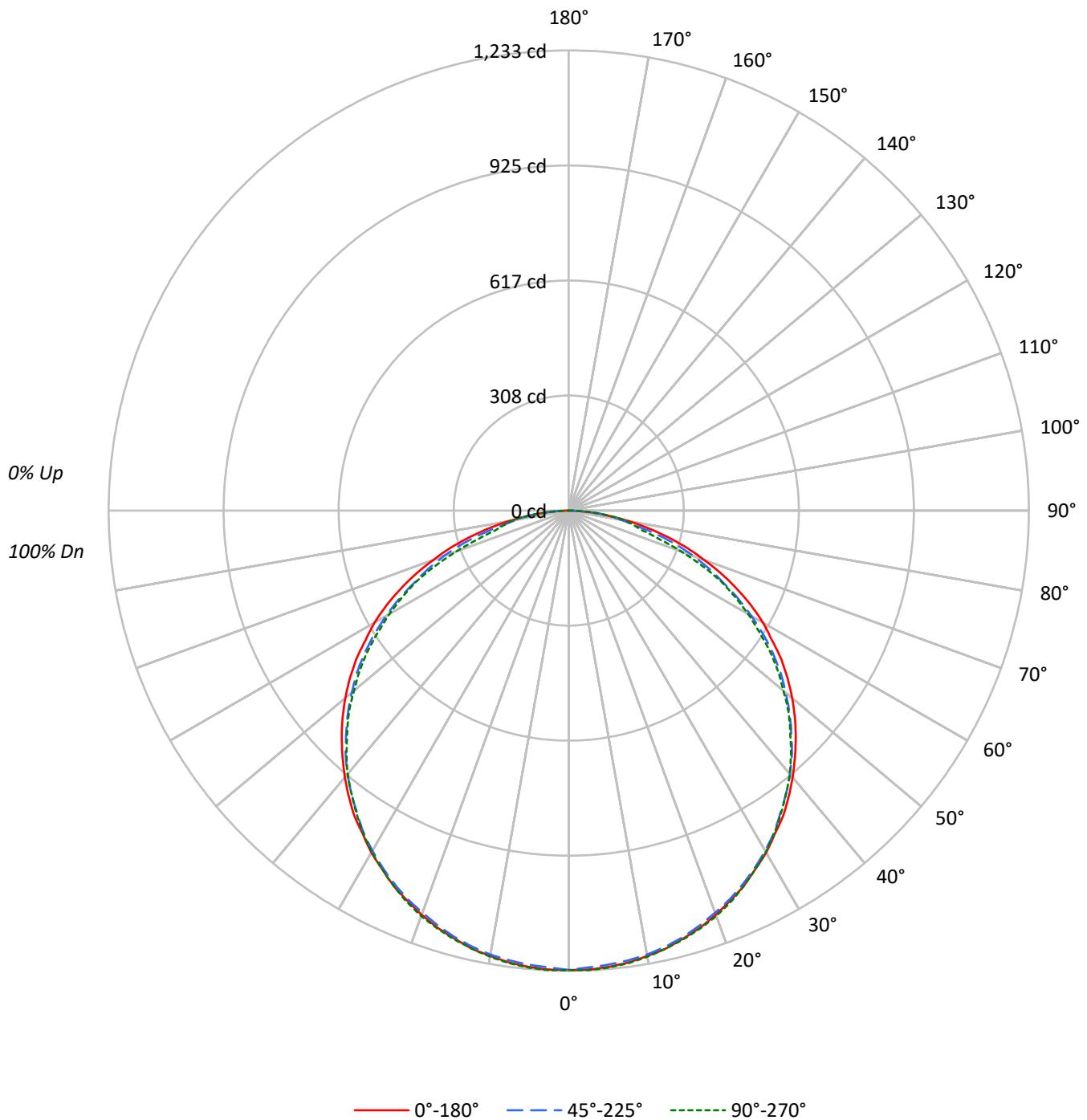
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3457	3457	3457
5°	3459	3443	3464
10°	3455	3444	3461
15°	3450	3439	3456
20°	3443	3426	3455
25°	3439	3421	3439
30°	3431	3412	3425
35°	3430	3390	3397
40°	3421	3379	3379
45°	3417	3348	3333
50°	3414	3314	3280
55°	3403	3272	3225
60°	3376	3171	3117
65°	3305	3037	2999
70°	3169	2917	2633
75°	2979	2626	2209
80°	2639	2267	2484
85°	2043	2352	2226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	3.2
10°-20°	334.8	9.2
20°-30°	510.3	14.0
30°-40°	621.4	17.1
40°-50°	653.4	18.0
50°-60°	599.8	16.5
60°-70°	460.8	12.7
70°-80°	257.2	7.1
80°-90°	78.1	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°	961.7	26.5
0°-40°	1583.1	43.6
0°-60°	2836.3	78.1
0°-90°	3632.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3632.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1227	1227	1221	1227	1229	117
15°	1187	1187	1183	1187	1189	335
25°	1110	1106	1104	1108	1110	511
35°	1001	997	989	991	991	625
45°	860	855	843	839	839	664
55°	695	689	668	657	659	620
65°	497	484	457	451	451	491
75°	275	261	242	209	204	290
85°	63	65	73	71	69	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.0	1231.0	1231.0	1231.0	1231.0
2.5°	1231.0	1231.0	1225.2	1231.0	1232.9
5°	1227.2	1227.2	1221.4	1227.2	1229.1
7.5°	1221.4	1221.4	1215.6	1219.5	1223.3
10°	1211.8	1211.8	1208.0	1211.8	1213.7
12.5°	1202.2	1200.3	1196.4	1200.3	1202.2
15°	1186.8	1186.8	1183.0	1186.8	1188.8
17.5°	1171.5	1169.6	1165.7	1171.5	1173.4
20°	1152.3	1150.4	1146.5	1152.3	1156.1
22.5°	1131.1	1129.2	1127.3	1133.1	1135.0
25°	1110.0	1106.2	1104.3	1108.1	1110.0
27.5°	1083.1	1081.2	1079.3	1081.2	1083.1
30°	1058.2	1054.3	1052.4	1052.4	1056.2
32.5°	1027.4	1025.5	1023.6	1025.5	1025.5
35°	1000.6	996.7	989.0	991.0	991.0
37.5°	967.9	962.1	956.4	956.4	956.4
40°	933.3	929.5	921.8	919.9	921.8
42.5°	896.9	893.0	885.3	879.6	881.5
45°	860.4	854.6	843.1	839.2	839.2
47.5°	822.0	816.2	802.7	797.0	798.9
50°	781.6	773.9	758.6	750.9	750.9
52.5°	739.4	731.7	716.3	706.7	706.7
55°	695.2	689.4	668.3	656.8	658.7
57.5°	645.3	639.5	618.4	604.9	604.9
60°	601.1	589.6	564.6	555.0	555.0
62.5°	551.2	537.7	512.8	501.2	503.2
65°	497.4	484.0	457.1	451.3	451.3
67.5°	443.6	432.1	407.1	397.5	387.9
70°	386.0	374.5	355.3	332.2	320.7
72.5°	332.2	318.8	301.5	266.9	255.4
75°	274.6	261.2	242.0	209.3	203.6
77.5°	218.9	207.4	180.5	172.8	176.7
80°	163.2	159.4	140.2	147.9	153.6
82.5°	109.5	107.5	111.4	115.2	115.2
85°	63.4	65.3	73.0	71.1	69.1
87.5°	26.9	32.6	30.7	30.7	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)