

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: P238698

Luminaire Tested: **14EN-LD2-33-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238698
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-LD2-33-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: 2866.3 lumens
Efficiency: N/A
Efficacy: 102.0 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

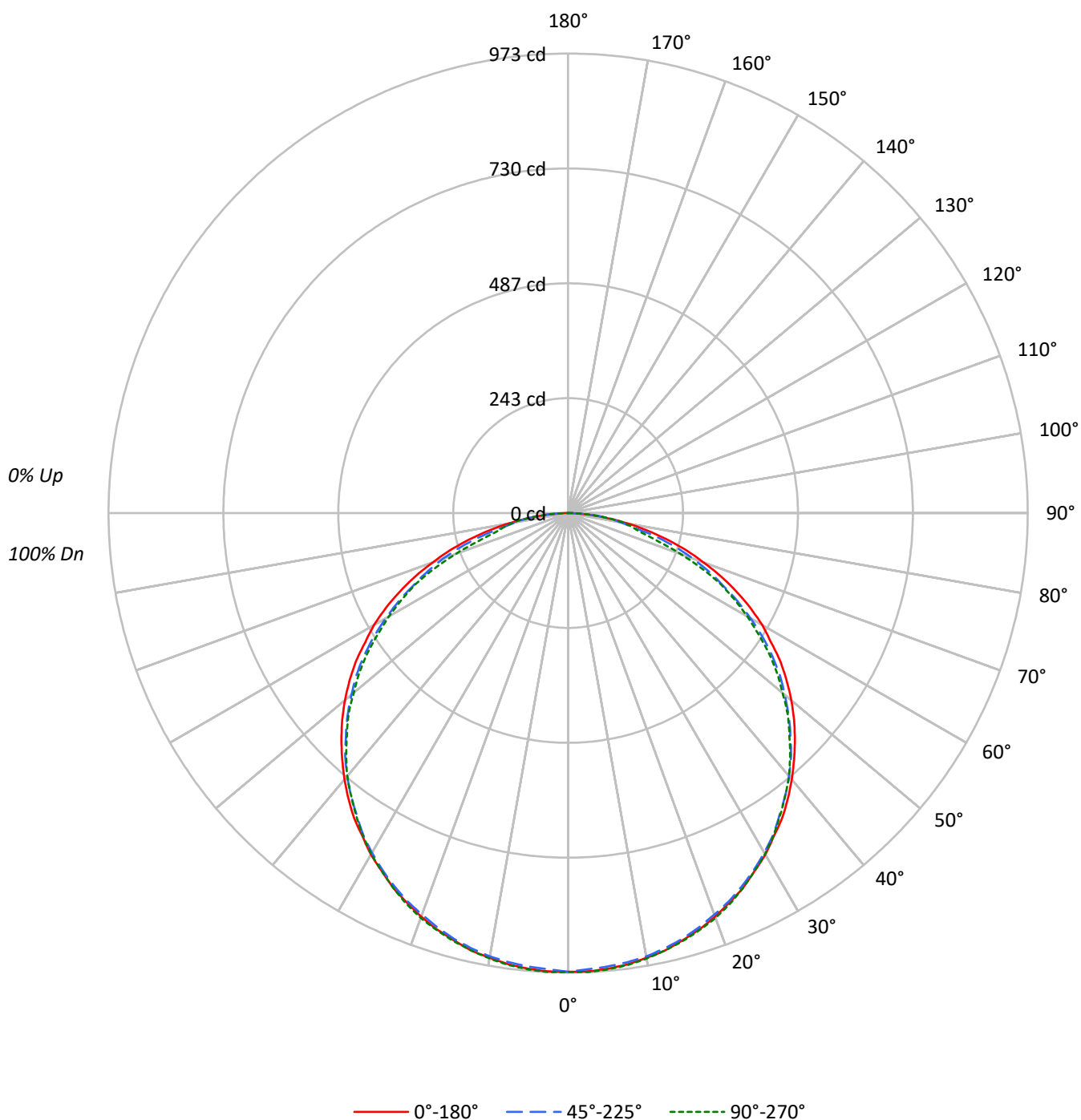
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2728	2728	2728
5°	2730	2717	2734
10°	2726	2718	2731
15°	2722	2714	2727
20°	2717	2703	2726
25°	2714	2700	2714
30°	2707	2693	2703
35°	2706	2675	2681
40°	2700	2666	2666
45°	2696	2642	2630
50°	2694	2615	2588
55°	2686	2582	2545
60°	2664	2502	2460
65°	2608	2397	2366
70°	2501	2302	2078
75°	2351	2071	1742
80°	2083	1788	1960
85°	1611	1856	1759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.2
10°-20°	264.2	9.2
20°-30°	402.7	14.0
30°-40°	490.4	17.1
40°-50°	515.6	18.0
50°-60°	473.3	16.5
60°-70°	363.6	12.7
70°-80°	203.0	7.1
80°-90°	61.6	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°	758.9	26.5
0°-40°	1249.2	43.6
0°-60°	2238.1	78.1
0°-90°	2866.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	968	968	964	968	970	92
15°	936	936	934	936	938	265
25°	876	873	871	874	876	403
35°	790	786	780	782	782	494
45°	679	674	665	662	662	524
55°	549	544	527	518	520	489
65°	392	382	361	356	356	388
75°	217	206	191	165	161	229
85°	50	52	58	56	55	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.4	971.4	971.4	971.4	971.4
2.5°	971.4	971.4	966.8	971.4	972.9
5°	968.4	968.4	963.8	968.4	969.9
7.5°	963.8	963.8	959.3	962.3	965.3
10°	956.2	956.2	953.2	956.2	957.8
12.5°	948.7	947.1	944.1	947.1	948.7
15°	936.5	936.5	933.5	936.5	938.1
17.5°	924.4	922.9	919.9	924.4	925.9
20°	909.3	907.7	904.7	909.3	912.3
22.5°	892.6	891.1	889.6	894.1	895.6
25°	875.9	872.9	871.4	874.4	875.9
27.5°	854.7	853.2	851.7	853.2	854.7
30°	835.0	832.0	830.5	830.5	833.5
32.5°	810.8	809.2	807.7	809.2	809.2
35°	789.5	786.5	780.4	782.0	782.0
37.5°	763.8	759.2	754.7	754.7	754.7
40°	736.5	733.5	727.4	725.9	727.4
42.5°	707.7	704.7	698.6	694.1	695.6
45°	678.9	674.4	665.3	662.2	662.2
47.5°	648.6	644.1	633.4	628.9	630.4
50°	616.8	610.7	598.6	592.5	592.5
52.5°	583.4	577.4	565.3	557.7	557.7
55°	548.6	544.0	527.4	518.3	519.8
57.5°	509.2	504.6	488.0	477.4	477.4
60°	474.3	465.2	445.5	438.0	438.0
62.5°	434.9	424.3	404.6	395.5	397.0
65°	392.5	381.9	360.7	356.1	356.1
67.5°	350.1	341.0	321.3	313.7	306.1
70°	304.6	295.5	280.4	262.2	253.1
72.5°	262.2	251.6	237.9	210.6	201.6
75°	216.7	206.1	190.9	165.2	160.6
77.5°	172.8	163.7	142.5	136.4	139.4
80°	128.8	125.8	110.6	116.7	121.2
82.5°	86.4	84.9	87.9	90.9	90.9
85°	50.0	51.5	57.6	56.1	54.6
87.5°	21.2	25.8	24.2	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)