

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: P238734

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238734
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-LD2-38-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2841.9 lumens
Efficiency: N/A
Efficacy: 86.6 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

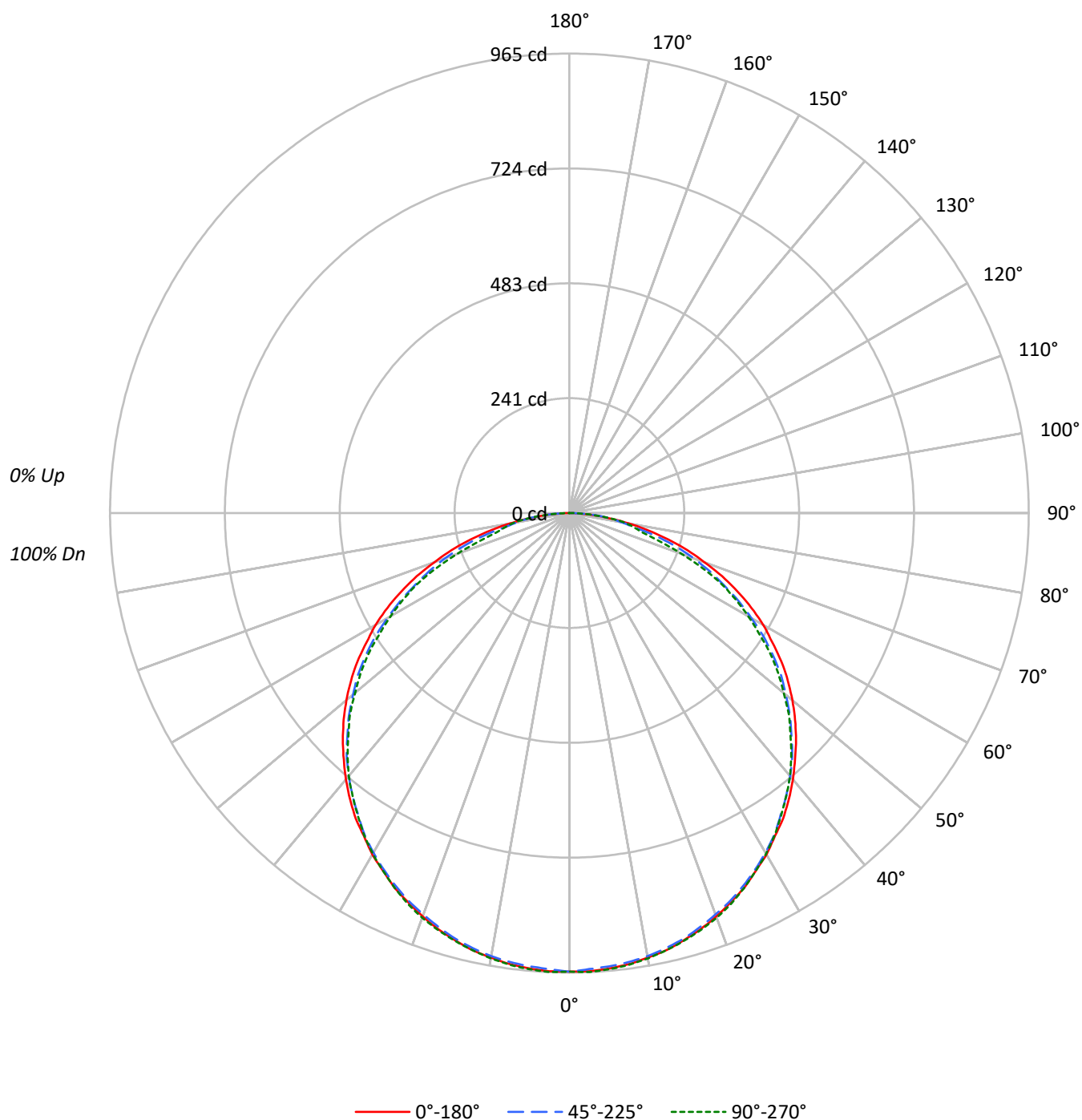
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	4057	4057	4057
5°	4059	4040	4066
10°	4055	4042	4061
15°	4049	4036	4056
20°	4041	4021	4054
25°	4036	4015	4036
30°	4027	4005	4019
35°	4025	3979	3986
40°	4015	3965	3965
45°	4009	3929	3911
50°	4007	3889	3850
55°	3994	3840	3785
60°	3962	3721	3658
65°	3879	3564	3519
70°	3719	3424	3090
75°	3497	3081	2592
80°	3097	2661	2916
85°	2397	2759	2614



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.2
10°-20°	261.9	9.2
20°-30°	399.3	14.0
30°-40°	486.2	17.1
40°-50°	511.2	18.0
50°-60°	469.2	16.5
60°-70°	360.5	12.7
70°-80°	201.2	7.1
80°-90°	61.1	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°	752.4	26.5
0°-40°	1238.6	43.6
0°-60°	2219.1	78.1
0°-90°	2841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2841.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	963	963	963	963	963	
5°	960	960	956	960	962	91
15°	929	929	926	929	930	262
25°	868	866	864	867	868	400
35°	783	780	774	775	775	489
45°	673	669	660	657	657	519
55°	544	539	523	514	515	485
65°	389	379	358	353	353	384
75°	215	204	189	164	159	227
85°	50	51	57	56	54	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.1	963.1	963.1	963.1	963.1
2.5°	963.1	963.1	958.6	963.1	964.6
5°	960.1	960.1	955.6	960.1	961.6
7.5°	955.6	955.6	951.1	954.1	957.1
10°	948.1	948.1	945.1	948.1	949.6
12.5°	940.6	939.1	936.1	939.1	940.6
15°	928.6	928.6	925.6	928.6	930.1
17.5°	916.5	915.0	912.0	916.5	918.1
20°	901.5	900.0	897.0	901.5	904.5
22.5°	885.0	883.5	882.0	886.5	888.0
25°	868.5	865.5	864.0	867.0	868.5
27.5°	847.4	845.9	844.4	845.9	847.4
30°	827.9	824.9	823.4	823.4	826.4
32.5°	803.9	802.4	800.9	802.4	802.4
35°	782.8	779.8	773.8	775.3	775.3
37.5°	757.3	752.8	748.3	748.3	748.3
40°	730.2	727.2	721.2	719.7	721.2
42.5°	701.7	698.7	692.7	688.2	689.7
45°	673.1	668.6	659.6	656.6	656.6
47.5°	643.1	638.6	628.1	623.6	625.1
50°	611.5	605.5	593.5	587.5	587.5
52.5°	578.5	572.5	560.4	552.9	552.9
55°	543.9	539.4	522.9	513.9	515.4
57.5°	504.9	500.3	483.8	473.3	473.3
60°	470.3	461.3	441.7	434.2	434.2
62.5°	431.2	420.7	401.2	392.2	393.7
65°	389.2	378.6	357.6	353.1	353.1
67.5°	347.1	338.1	318.5	311.0	303.5
70°	302.0	293.0	278.0	259.9	250.9
72.5°	259.9	249.4	235.9	208.9	199.8
75°	214.9	204.3	189.3	163.8	159.3
77.5°	171.3	162.3	141.2	135.2	138.2
80°	127.7	124.7	109.7	115.7	120.2
82.5°	85.6	84.1	87.1	90.2	90.2
85°	49.6	51.1	57.1	55.6	54.1
87.5°	21.0	25.5	24.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)