

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: P238694

Luminaire Tested: **14EN-LD2-28-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238694
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-LD2-28-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: 2422.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

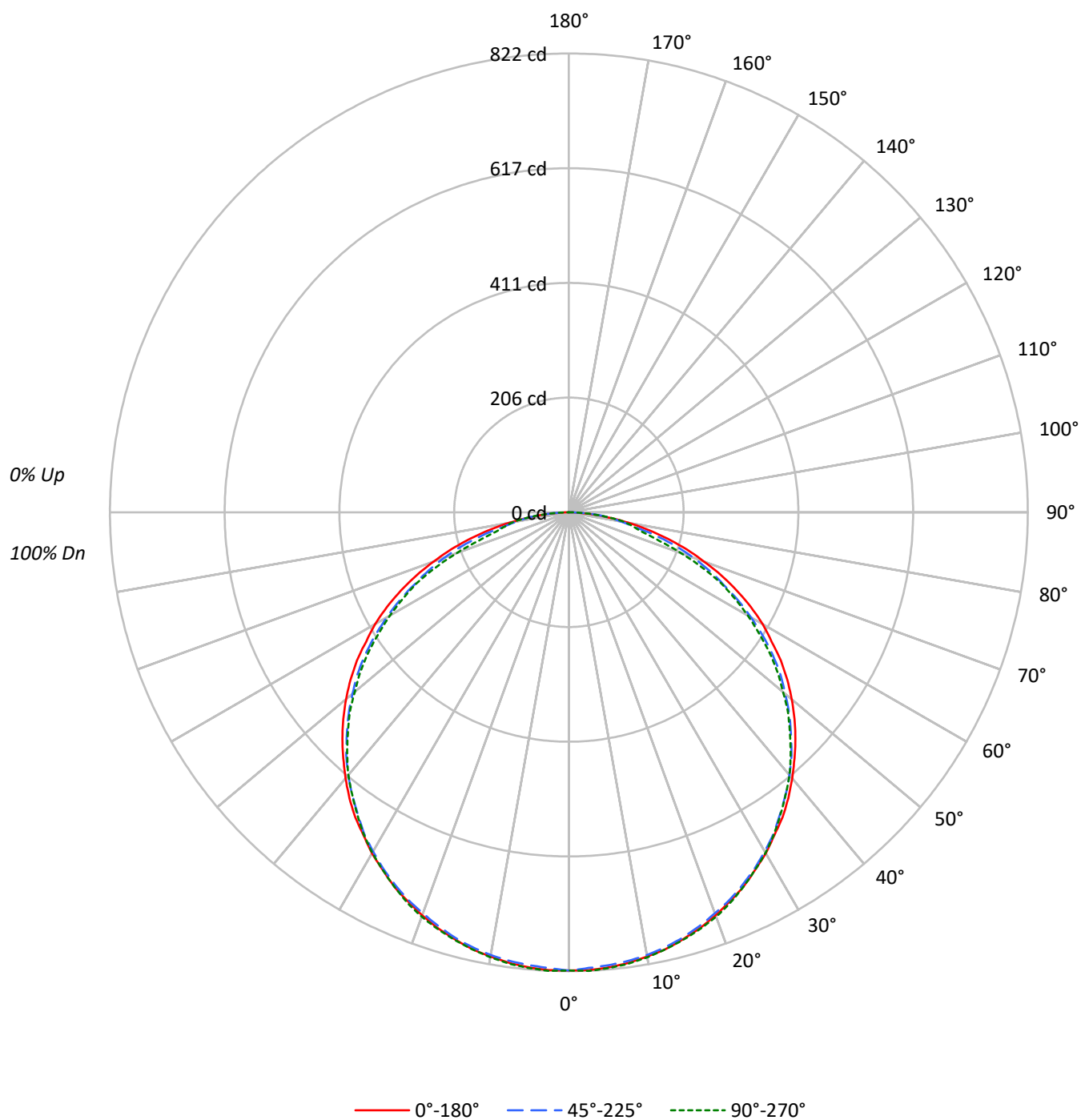
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	63		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	69	56	47	40	68	55	46	40		53	46	40		51	45	39		50	44	39
7	64	51	42	36	63	50	41	35		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	45	37	32		44	37	31		43	36	31		42	36	31
9	56	42	34	28	54	42	34	28		41	33	28		40	33	28		38	32	28
10	52	39	31	26	51	39	31	26		38	30	26		37	30	25		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2305	2305	2305
5°	2307	2296	2310
10°	2304	2297	2308
15°	2301	2293	2304
20°	2296	2284	2304
25°	2293	2281	2293
30°	2288	2275	2284
35°	2287	2261	2265
40°	2281	2253	2253
45°	2278	2233	2222
50°	2277	2210	2187
55°	2270	2181	2150
60°	2251	2114	2078
65°	2204	2025	1999
70°	2113	1945	1755
75°	1986	1750	1472
80°	1759	1512	1656
85°	1363	1569	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.2
10°-20°	223.2	9.2
20°-30°	340.3	14.0
30°-40°	414.4	17.1
40°-50°	435.7	18.0
50°-60°	399.9	16.5
60°-70°	307.2	12.7
70°-80°	171.5	7.1
80°-90°	52.1	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°	641.2	26.5
0°-40°	1055.6	43.6
0°-60°	1891.2	78.1
0°-90°	2422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	818	818	814	818	820	78
15°	791	791	789	791	793	224
25°	740	738	736	739	740	341
35°	667	665	660	661	661	417
45°	574	570	562	560	560	443
55°	464	460	446	438	439	413
65°	332	323	305	301	301	328
75°	183	174	161	140	136	193
85°	42	44	49	47	46	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.8	820.8	820.8	820.8	820.8
2.5°	820.8	820.8	817.0	820.8	822.1
5°	818.3	818.3	814.4	818.3	819.5
7.5°	814.4	814.4	810.6	813.1	815.7
10°	808.0	808.0	805.5	808.0	809.3
12.5°	801.6	800.3	797.8	800.3	801.6
15°	791.4	791.4	788.8	791.4	792.7
17.5°	781.1	779.8	777.3	781.1	782.4
20°	768.3	767.0	764.5	768.3	770.9
22.5°	754.2	753.0	751.7	755.5	756.8
25°	740.1	737.6	736.3	738.9	740.1
27.5°	722.2	720.9	719.7	720.9	722.2
30°	705.6	703.0	701.7	701.7	704.3
32.5°	685.1	683.8	682.5	683.8	683.8
35°	667.2	664.6	659.5	660.8	660.8
37.5°	645.4	641.5	637.7	637.7	637.7
40°	622.3	619.8	614.7	613.4	614.7
42.5°	598.0	595.4	590.3	586.5	587.8
45°	573.7	569.8	562.2	559.6	559.6
47.5°	548.1	544.2	535.3	531.4	532.7
50°	521.2	516.1	505.8	500.7	500.7
52.5°	493.0	487.9	477.6	471.2	471.2
55°	463.6	459.7	445.6	437.9	439.2
57.5°	430.3	426.4	412.3	403.4	403.4
60°	400.8	393.1	376.5	370.1	370.1
62.5°	367.5	358.5	341.9	334.2	335.5
65°	331.7	322.7	304.8	300.9	300.9
67.5°	295.8	288.1	271.5	265.1	258.7
70°	257.4	249.7	236.9	221.5	213.8
72.5°	221.5	212.6	201.0	178.0	170.3
75°	183.1	174.2	161.3	139.6	135.7
77.5°	146.0	138.3	120.4	115.2	117.8
80°	108.8	106.3	93.5	98.6	102.4
82.5°	73.0	71.7	74.3	76.8	76.8
85°	42.3	43.5	48.7	47.4	46.1
87.5°	17.9	21.8	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)