

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: P238755

Luminaire Tested: **14EN-LD2-25-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238755
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-LD2-25-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2557.1 lumens
Efficiency: N/A
Efficacy: 122.4 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

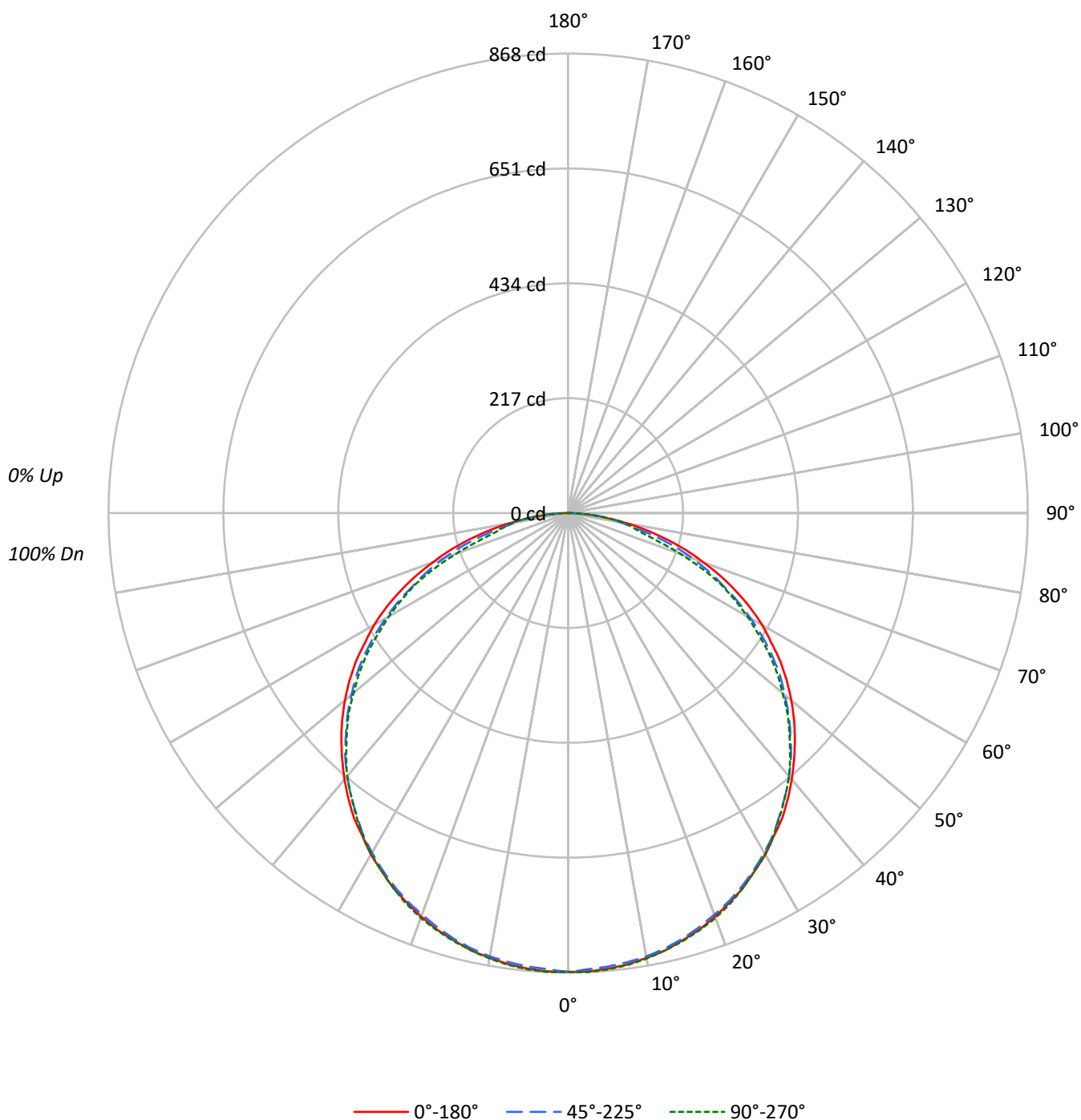
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2433	2433	2433
5°	2435	2424	2439
10°	2432	2425	2436
15°	2429	2421	2433
20°	2424	2412	2432
25°	2421	2409	2421
30°	2415	2402	2411
35°	2415	2387	2391
40°	2409	2379	2379
45°	2405	2357	2346
50°	2404	2333	2309
55°	2396	2303	2270
60°	2377	2232	2194
65°	2327	2138	2111
70°	2231	2053	1854
75°	2097	1849	1555
80°	1858	1596	1750
85°	1437	1656	1569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	3.2
10°-20°	235.7	9.2
20°-30°	359.3	14.0
30°-40°	437.5	17.1
40°-50°	460.0	18.0
50°-60°	422.2	16.5
60°-70°	324.4	12.7
70°-80°	181.1	7.1
80°-90°	55.0	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°	677.0	26.5
0°-40°	1114.5	43.6
0°-60°	1996.7	78.1
0°-90°	2557.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	864	864	860	864	865	82
15°	836	836	833	836	837	236
25°	781	779	777	780	781	360
35°	704	702	696	698	698	440
45°	606	602	594	591	591	467
55°	489	485	470	462	464	436
65°	350	341	322	318	318	346
75°	193	184	170	147	143	204
85°	45	46	51	50	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.6	866.6	866.6	866.6	866.6
2.5°	866.6	866.6	862.6	866.6	868.0
5°	863.9	863.9	859.9	863.9	865.3
7.5°	859.9	859.9	855.8	858.5	861.2
10°	853.1	853.1	850.4	853.1	854.5
12.5°	846.3	845.0	842.3	845.0	846.3
15°	835.5	835.5	832.8	835.5	836.9
17.5°	824.7	823.4	820.7	824.7	826.1
20°	811.2	809.8	807.1	811.2	813.9
22.5°	796.3	795.0	793.6	797.7	799.0
25°	781.4	778.7	777.4	780.1	781.4
27.5°	762.5	761.2	759.8	761.2	762.5
30°	744.9	742.2	740.9	740.9	743.6
32.5°	723.3	722.0	720.6	722.0	722.0
35°	704.4	701.7	696.3	697.6	697.6
37.5°	681.4	677.3	673.3	673.3	673.3
40°	657.1	654.4	649.0	647.6	649.0
42.5°	631.4	628.7	623.3	619.2	620.6
45°	605.7	601.6	593.5	590.8	590.8
47.5°	578.7	574.6	565.1	561.1	562.4
50°	550.3	544.9	534.0	528.6	528.6
52.5°	520.5	515.1	504.3	497.5	497.5
55°	489.4	485.4	470.5	462.4	463.7
57.5°	454.3	450.2	435.3	425.9	425.9
60°	423.2	415.1	397.5	390.7	390.7
62.5°	388.0	378.6	361.0	352.9	354.2
65°	350.2	340.7	321.8	317.7	317.7
67.5°	312.3	304.2	286.6	279.9	273.1
70°	271.7	263.6	250.1	233.9	225.8
72.5°	233.9	224.4	212.3	187.9	179.8
75°	193.3	183.9	170.4	147.4	143.3
77.5°	154.1	146.0	127.1	121.7	124.4
80°	114.9	112.2	98.7	104.1	108.2
82.5°	77.1	75.7	78.4	81.1	81.1
85°	44.6	46.0	51.4	50.0	48.7
87.5°	18.9	23.0	21.6	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)