

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: P238660

Luminaire Tested: **14ENA-LD2-25-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238660
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-LD2-25-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2393.1 lumens
Efficiency: N/A
Efficacy: 114.5 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

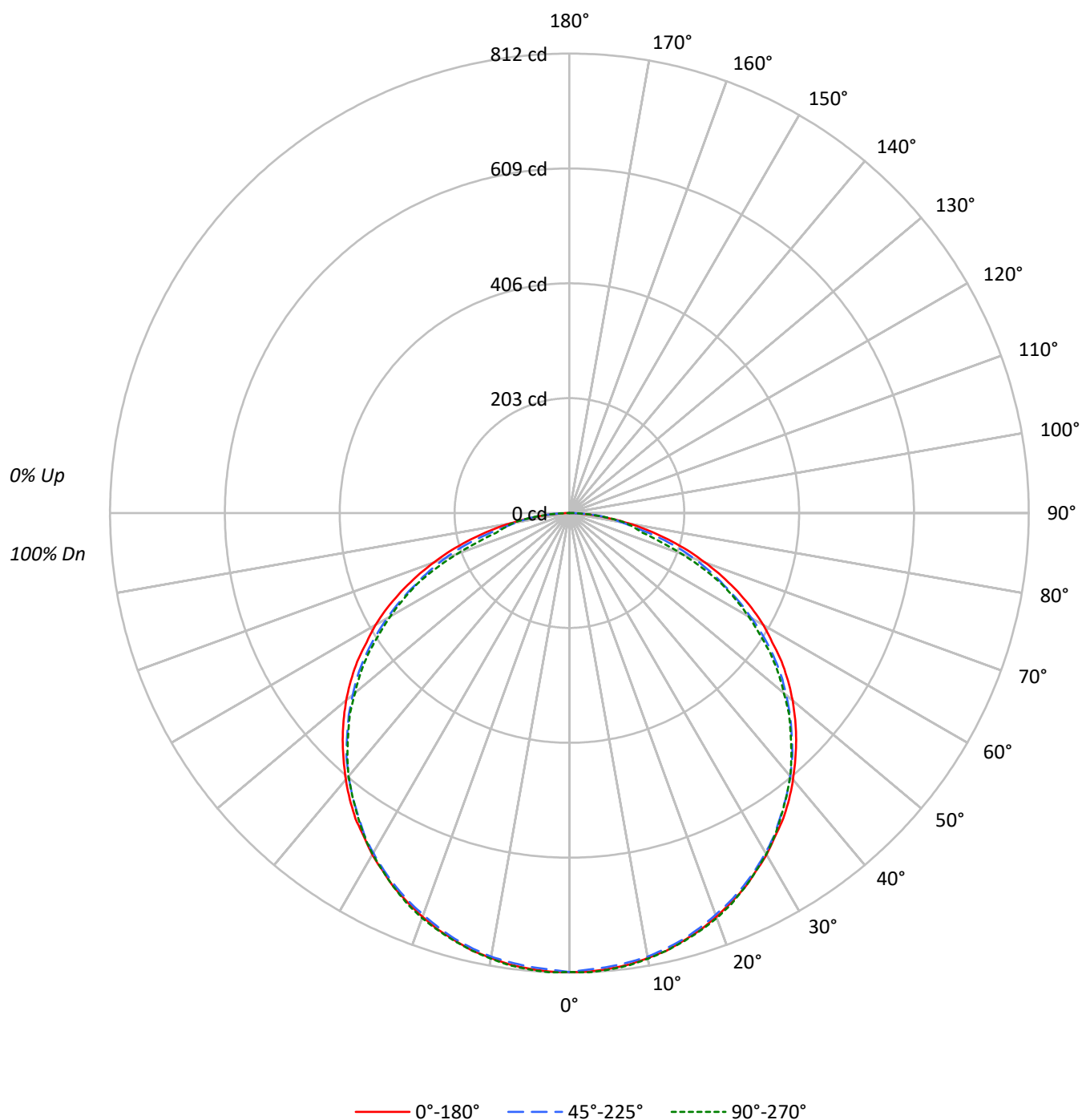
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26		
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3416	3416	3416
5°	3418	3402	3424
10°	3415	3404	3420
15°	3410	3399	3415
20°	3403	3386	3414
25°	3399	3381	3399
30°	3391	3372	3385
35°	3390	3350	3357
40°	3381	3339	3339
45°	3377	3309	3293
50°	3375	3275	3242
55°	3363	3233	3187
60°	3336	3134	3081
65°	3266	3001	2963
70°	3132	2883	2602
75°	2944	2594	2182
80°	2610	2241	2455
85°	2020	2325	2204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	3.2
10°-20°	220.6	9.2
20°-30°	336.2	14.0
30°-40°	409.4	17.1
40°-50°	430.5	18.0
50°-60°	395.2	16.5
60°-70°	303.6	12.7
70°-80°	169.4	7.1
80°-90°	51.4	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°	633.6	26.5
0°-40°	1043.0	43.6
0°-60°	1868.7	78.1
0°-90°	2393.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2393.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	811	811	811	811	811	
5°	808	808	805	808	810	77
15°	782	782	779	782	783	221
25°	731	729	728	730	731	337
35°	659	657	652	653	653	412
45°	567	563	556	553	553	437
55°	458	454	440	433	434	408
65°	328	319	301	297	297	324
75°	181	172	159	138	134	191
85°	42	43	48	47	46	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	811.1	811.1	811.1	811.1	811.1
2.5°	811.1	811.1	807.3	811.1	812.3
5°	808.5	808.5	804.7	808.5	809.8
7.5°	804.7	804.7	800.9	803.5	806.0
10°	798.4	798.4	795.9	798.4	799.7
12.5°	792.1	790.8	788.3	790.8	792.1
15°	782.0	782.0	779.4	782.0	783.2
17.5°	771.8	770.6	768.0	771.8	773.1
20°	759.2	757.9	755.4	759.2	761.7
22.5°	745.3	744.0	742.7	746.5	747.8
25°	731.3	728.8	727.5	730.1	731.3
27.5°	713.6	712.4	711.1	712.4	713.6
30°	697.2	694.7	693.4	693.4	695.9
32.5°	676.9	675.7	674.4	675.7	675.7
35°	659.2	656.7	651.6	652.9	652.9
37.5°	637.7	633.9	630.1	630.1	630.1
40°	614.9	612.4	607.3	606.1	607.3
42.5°	590.9	588.4	583.3	579.5	580.8
45°	566.9	563.1	555.5	552.9	552.9
47.5°	541.5	537.8	528.9	525.1	526.4
50°	515.0	509.9	499.8	494.7	494.7
52.5°	487.1	482.1	472.0	465.6	465.6
55°	458.0	454.2	440.3	432.7	434.0
57.5°	425.1	421.3	407.4	398.6	398.6
60°	396.0	388.4	372.0	365.7	365.7
62.5°	363.1	354.3	337.8	330.2	331.5
65°	327.7	318.9	301.1	297.3	297.3
67.5°	292.3	284.7	268.2	261.9	255.6
70°	254.3	246.7	234.1	218.9	211.3
72.5°	218.9	210.0	198.7	175.9	168.3
75°	180.9	172.1	159.4	137.9	134.1
77.5°	144.2	136.7	118.9	113.9	116.4
80°	107.6	105.0	92.4	97.4	101.2
82.5°	72.1	70.9	73.4	75.9	75.9
85°	41.8	43.0	48.1	46.8	45.6
87.5°	17.7	21.5	20.2	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)