

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: P238657

Luminaire Tested: **14ENA-LD2-25-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238657
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-L830-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2090.9 lumens
Efficiency: N/A
Efficacy: 100.0 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

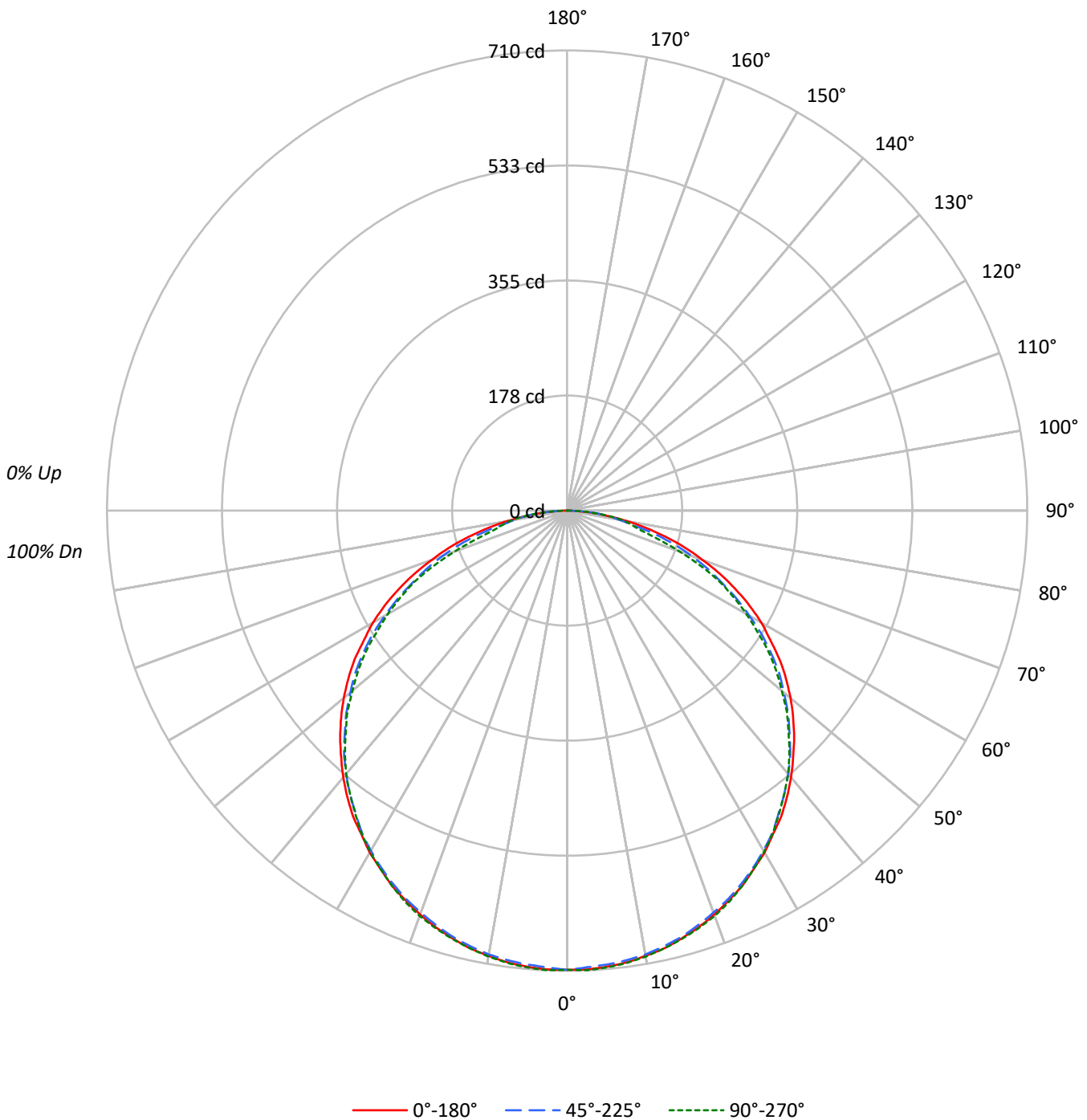
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	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°	2985	2985	2985
5°	2987	2973	2991
10°	2984	2974	2988
15°	2979	2970	2984
20°	2973	2958	2983
25°	2970	2954	2970
30°	2962	2946	2957
35°	2962	2927	2933
40°	2954	2917	2917
45°	2950	2891	2878
50°	2948	2862	2832
55°	2939	2825	2785
60°	2915	2738	2691
65°	2853	2622	2589
70°	2736	2518	2273
75°	2573	2267	1907
80°	2280	1957	2144
85°	1764	2030	1923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	3.2
10°-20°	192.7	9.2
20°-30°	293.8	14.0
30°-40°	357.7	17.1
40°-50°	376.1	18.0
50°-60°	345.2	16.5
60°-70°	265.2	12.7
70°-80°	148.0	7.1
80°-90°	44.9	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°	553.6	26.5
0°-40°	911.3	43.6
0°-60°	1632.6	78.1
0°-90°	2090.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	709	709	709	709	709	
5°	706	706	703	706	708	67
15°	683	683	681	683	684	193
25°	639	637	636	638	639	294
35°	576	574	569	570	570	360
45°	495	492	485	483	483	382
55°	400	397	385	378	379	357
65°	286	279	263	260	260	283
75°	158	150	139	120	117	167
85°	36	38	42	41	40	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.6	708.6	708.6	708.6	708.6
2.5°	708.6	708.6	705.3	708.6	709.7
5°	706.4	706.4	703.1	706.4	707.5
7.5°	703.1	703.1	699.8	702.0	704.2
10°	697.6	697.6	695.4	697.6	698.7
12.5°	692.0	690.9	688.7	690.9	692.0
15°	683.2	683.2	681.0	683.2	684.3
17.5°	674.3	673.2	671.0	674.3	675.5
20°	663.3	662.2	660.0	663.3	665.5
22.5°	651.1	650.0	648.9	652.2	653.3
25°	639.0	636.8	635.7	637.9	639.0
27.5°	623.5	622.4	621.3	622.4	623.5
30°	609.1	606.9	605.8	605.8	608.0
32.5°	591.4	590.3	589.2	590.3	590.3
35°	576.0	573.7	569.3	570.4	570.4
37.5°	557.2	553.8	550.5	550.5	550.5
40°	537.3	535.1	530.6	529.5	530.6
42.5°	516.3	514.1	509.6	506.3	507.4
45°	495.3	491.9	485.3	483.1	483.1
47.5°	473.1	469.8	462.1	458.8	459.9
50°	449.9	445.5	436.7	432.2	432.2
52.5°	425.6	421.2	412.3	406.8	406.8
55°	400.2	396.9	384.7	378.1	379.2
57.5°	371.4	368.1	356.0	348.2	348.2
60°	346.0	339.4	325.0	319.5	319.5
62.5°	317.3	309.5	295.2	288.5	289.6
65°	286.3	278.6	263.1	259.8	259.8
67.5°	255.4	248.7	234.4	228.8	223.3
70°	222.2	215.6	204.5	191.2	184.6
72.5°	191.2	183.5	173.6	153.7	147.0
75°	158.1	150.3	139.3	120.5	117.2
77.5°	126.0	119.4	103.9	99.5	101.7
80°	94.0	91.8	80.7	85.1	88.4
82.5°	63.0	61.9	64.1	66.3	66.3
85°	36.5	37.6	42.0	40.9	39.8
87.5°	15.5	18.8	17.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)