

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: P238723

Luminaire Tested: **14ENA-LD2-25-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238723
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-L940-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1941.8 lumens
Efficiency: N/A
Efficacy: 92.9 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

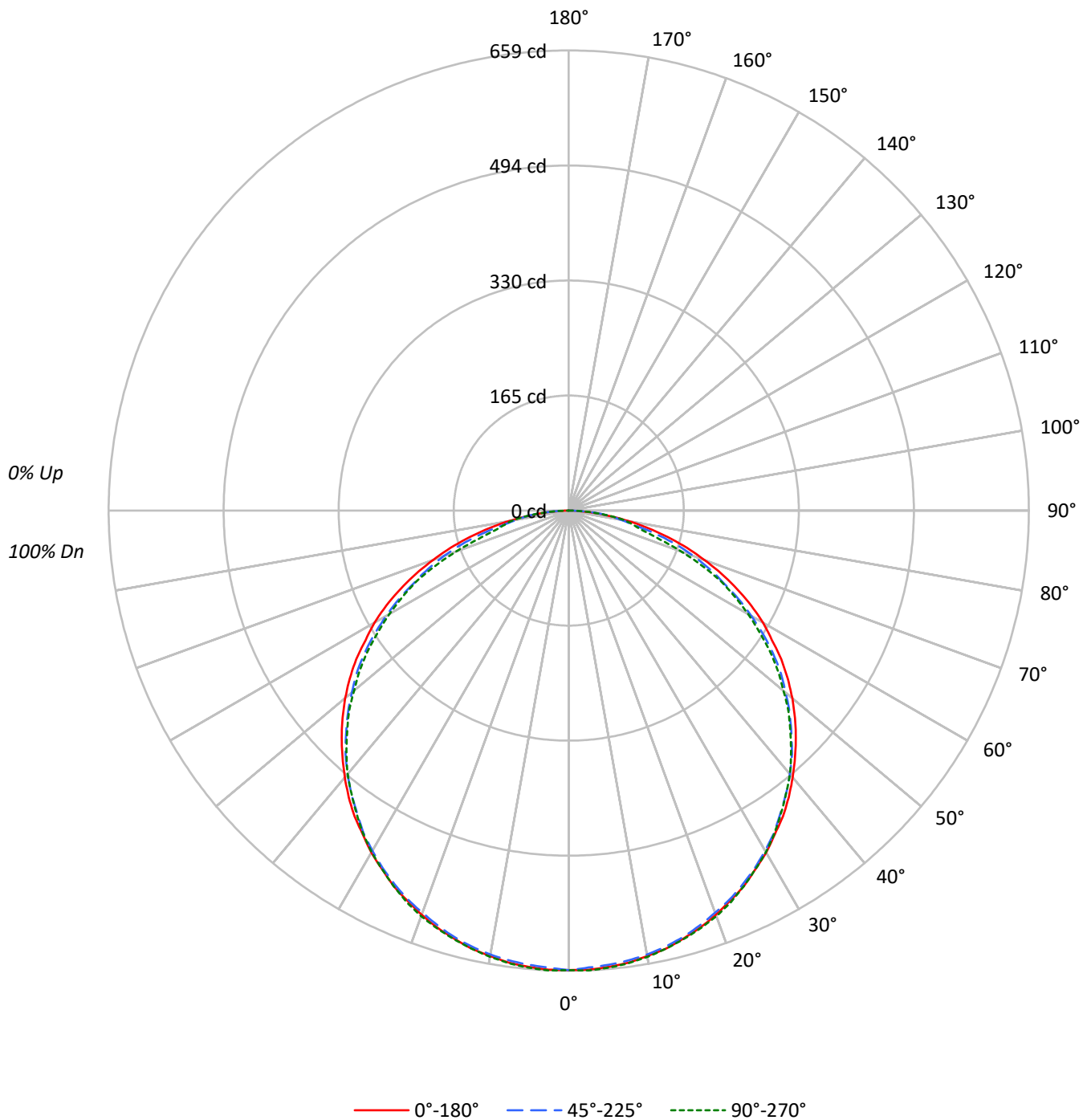
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	2772	2772	2772
5°	2774	2761	2778
10°	2771	2762	2775
15°	2767	2758	2771
20°	2761	2747	2771
25°	2758	2743	2758
30°	2751	2736	2746
35°	2750	2719	2724
40°	2744	2710	2710
45°	2739	2685	2673
50°	2738	2657	2630
55°	2730	2624	2586
60°	2707	2542	2499
65°	2650	2435	2405
70°	2542	2339	2112
75°	2389	2106	1771
80°	2118	1817	1991
85°	1638	1885	1788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.2
10°-20°	179.0	9.2
20°-30°	272.8	14.0
30°-40°	332.2	17.1
40°-50°	349.3	18.0
50°-60°	320.6	16.5
60°-70°	246.3	12.7
70°-80°	137.5	7.1
80°-90°	41.7	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°	514.1	26.5
0°-40°	846.3	43.6
0°-60°	1516.3	78.1
0°-90°	1941.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1941.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	656	656	653	656	657	62
15°	634	634	632	634	636	179
25°	593	591	590	592	593	273
35°	535	533	529	530	530	334
45°	460	457	451	449	449	355
55°	372	369	357	351	352	331
65°	266	259	244	241	241	263
75°	147	140	129	112	109	155
85°	34	35	39	38	37	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.1	658.1	658.1	658.1	658.1
2.5°	658.1	658.1	655.0	658.1	659.1
5°	656.0	656.0	653.0	656.0	657.1
7.5°	653.0	653.0	649.9	651.9	654.0
10°	647.8	647.8	645.8	647.8	648.9
12.5°	642.7	641.7	639.6	641.7	642.7
15°	634.5	634.5	632.4	634.5	635.5
17.5°	626.3	625.2	623.2	626.3	627.3
20°	616.0	615.0	612.9	616.0	618.1
22.5°	604.7	603.7	602.7	605.7	606.8
25°	593.4	591.4	590.3	592.4	593.4
27.5°	579.0	578.0	577.0	578.0	579.0
30°	565.7	563.6	562.6	562.6	564.7
32.5°	549.3	548.2	547.2	548.2	548.2
35°	534.9	532.8	528.7	529.8	529.8
37.5°	517.4	514.4	511.3	511.3	511.3
40°	499.0	496.9	492.8	491.8	492.8
42.5°	479.5	477.4	473.3	470.2	471.2
45°	459.9	456.9	450.7	448.7	448.7
47.5°	439.4	436.3	429.1	426.1	427.1
50°	417.9	413.7	405.5	401.4	401.4
52.5°	395.3	391.2	382.9	377.8	377.8
55°	371.7	368.6	357.3	351.1	352.1
57.5°	345.0	341.9	330.6	323.4	323.4
60°	321.3	315.2	301.8	296.7	296.7
62.5°	294.7	287.5	274.1	268.0	269.0
65°	265.9	258.7	244.3	241.3	241.3
67.5°	237.2	231.0	217.7	212.5	207.4
70°	206.4	200.2	189.9	177.6	171.5
72.5°	177.6	170.4	161.2	142.7	136.5
75°	146.8	139.6	129.4	111.9	108.8
77.5°	117.0	110.9	96.5	92.4	94.5
80°	87.3	85.2	74.9	79.1	82.1
82.5°	58.5	57.5	59.5	61.6	61.6
85°	33.9	34.9	39.0	38.0	37.0
87.5°	14.4	17.5	16.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)