

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: P229325

Luminaire Tested: **14ALNG-LD5-23-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36085)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD5-23-UNV-L830-CD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (84)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2251.0 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.3
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

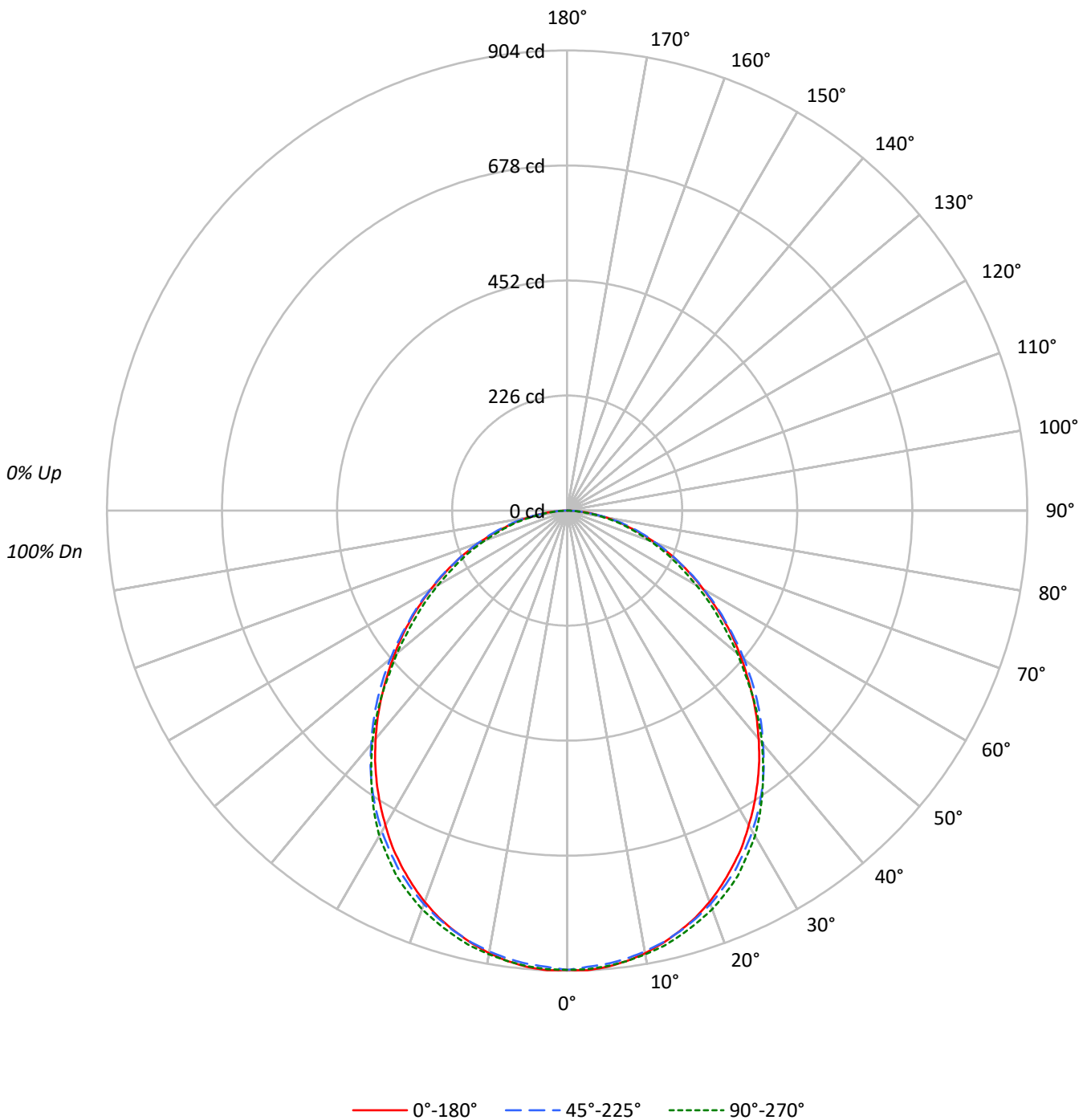
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49		60	53	48		58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34		45	39	34		44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3040	3040	3040
5°	3045	3024	3039
10°	3021	3009	3028
15°	2983	2985	3012
20°	2933	2951	2989
25°	2864	2901	2946
30°	2777	2831	2872
35°	2683	2747	2754
40°	2574	2634	2620
45°	2455	2516	2457
50°	2329	2378	2288
55°	2209	2228	2124
60°	2082	2089	1973
65°	1950	1950	1835
70°	1803	1825	1689
75°	1639	1704	1552
80°	1496	1539	1323
85°	1307	1156	1009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.8
10°-20°	242.1	10.8
20°-30°	359.4	16.0
30°-40°	415.2	18.4
40°-50°	402.3	17.9
50°-60°	335.9	14.9
60°-70°	240.2	10.7
70°-80°	134.7	6.0
80°-90°	35.9	1.6
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°	686.7	30.5
0°-40°	1101.9	49.0
0°-60°	1840.2	81.8
0°-90°	2251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	900	898	894	899	898	85
15°	855	856	856	864	864	241
25°	770	774	780	791	792	354
35°	652	658	668	672	669	408
45°	515	522	528	521	516	397
55°	376	382	379	369	362	336
65°	245	249	245	235	230	243
75°	126	131	131	122	119	135
85°	34	34	30	27	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	903.9	902.3	897.3	902.3	901.7
5°	900.1	898.4	894.0	898.9	898.4
7.5°	892.8	891.7	887.9	894.0	892.8
10°	882.9	881.8	879.5	885.6	885.1
12.5°	870.1	870.1	869.0	875.7	876.2
15°	855.1	856.2	855.7	864.0	863.5
17.5°	838.5	838.5	840.2	849.6	849.0
20°	818.0	819.1	823.0	831.8	833.5
22.5°	795.2	796.9	801.9	813.0	813.5
25°	770.3	774.2	780.3	791.4	792.5
27.5°	744.2	747.0	754.2	765.9	764.7
30°	713.7	720.4	727.6	737.0	738.1
32.5°	683.8	689.9	698.8	706.5	704.9
35°	652.2	657.7	667.7	672.1	669.4
37.5°	620.0	626.1	634.4	636.6	632.2
40°	585.1	592.8	598.9	598.9	595.6
42.5°	550.7	556.8	563.4	560.7	555.7
45°	515.2	522.4	527.9	521.3	515.7
47.5°	479.1	487.5	490.2	483.0	473.6
50°	444.2	453.1	453.6	444.2	436.4
52.5°	410.9	417.6	415.9	406.5	397.6
55°	376.0	382.1	379.3	368.8	361.6
57.5°	341.6	347.7	346.0	333.8	327.2
60°	308.9	312.2	310.0	300.6	292.8
62.5°	276.2	280.1	278.9	265.6	260.1
65°	244.6	249.0	244.6	235.1	230.1
67.5°	214.6	217.4	216.3	208.5	201.9
70°	183.0	186.9	185.2	176.4	171.4
72.5°	154.7	159.2	158.6	149.2	143.1
75°	125.9	131.4	130.9	122.0	119.2
77.5°	102.6	105.4	105.9	96.5	94.8
80°	77.1	81.0	79.3	71.0	68.2
82.5°	54.3	57.7	52.7	47.7	46.6
85°	33.8	34.4	29.9	27.2	26.1
87.5°	13.9	13.9	10.5	9.4	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)