

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: P229326

Luminaire Tested: **14ALNG-LD5-26-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229326
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-LD5-26-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: 2529.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

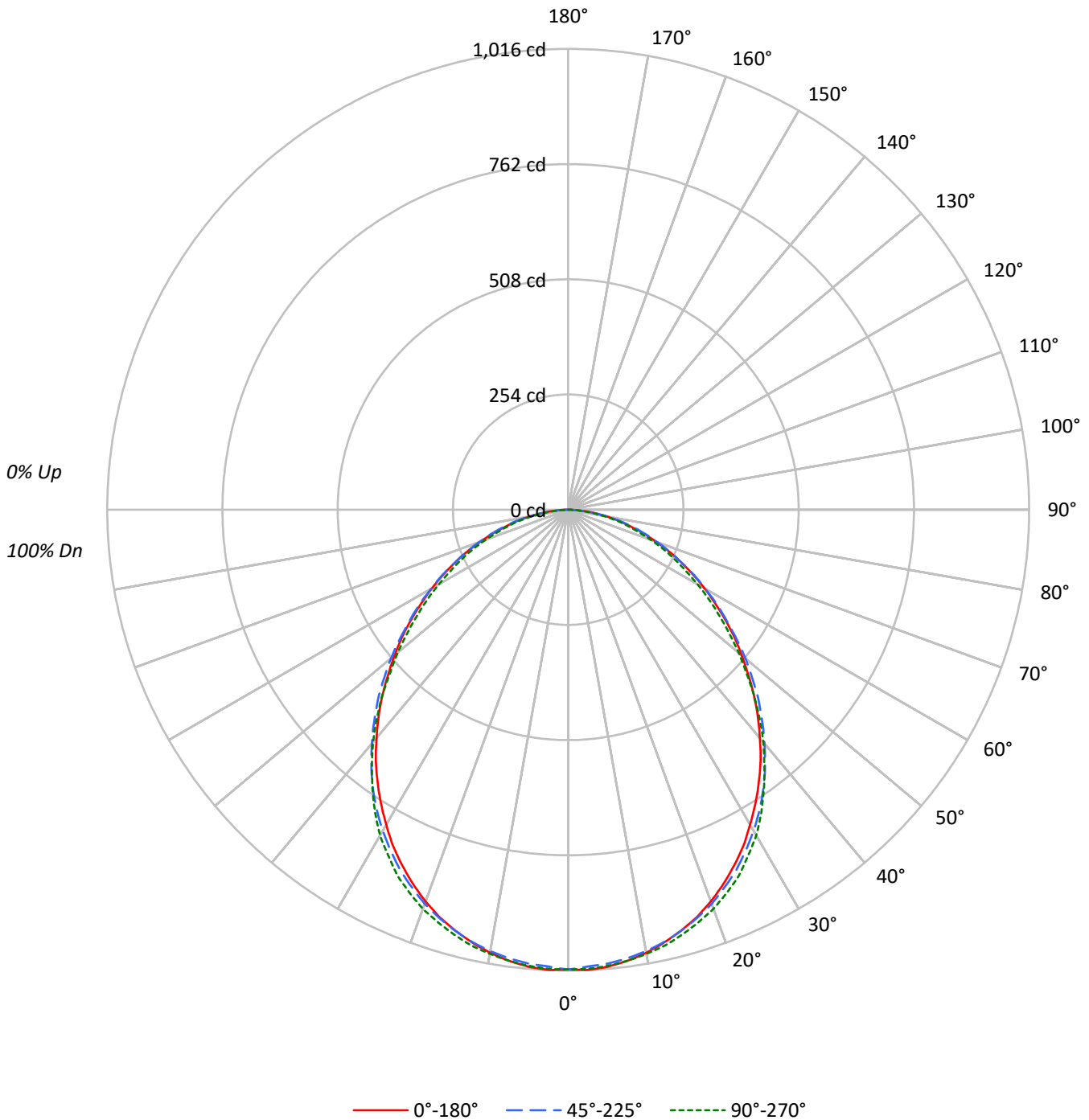
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3416	3416	3416
5°	3420	3397	3414
10°	3394	3381	3402
15°	3351	3354	3384
20°	3295	3315	3358
25°	3217	3259	3310
30°	3120	3180	3227
35°	3014	3086	3093
40°	2891	2960	2944
45°	2758	2826	2761
50°	2616	2672	2570
55°	2481	2504	2386
60°	2338	2347	2217
65°	2191	2191	2062
70°	2026	2050	1897
75°	1841	1914	1745
80°	1680	1729	1486
85°	1469	1299	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.8
10°-20°	272.0	10.8
20°-30°	403.8	16.0
30°-40°	466.5	18.4
40°-50°	452.0	17.9
50°-60°	377.4	14.9
60°-70°	269.8	10.7
70°-80°	151.4	6.0
80°-90°	40.3	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°	771.5	30.5
0°-40°	1238.0	49.0
0°-60°	2067.5	81.8
0°-90°	2529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2529.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1011	1009	1004	1010	1009	96
15°	961	962	961	971	970	271
25°	865	870	877	889	890	398
35°	733	739	750	755	752	458
45°	579	587	593	586	579	446
55°	422	429	426	414	406	378
65°	275	280	275	264	259	273
75°	141	148	147	137	134	152
85°	38	39	34	30	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1013.7	1013.7	1013.7	1013.7	1013.7
2.5°	1015.6	1013.7	1008.1	1013.7	1013.1
5°	1011.2	1009.3	1004.4	1010.0	1009.3
7.5°	1003.1	1001.9	997.5	1004.4	1003.1
10°	991.9	990.7	988.2	995.0	994.4
12.5°	977.6	977.6	976.3	983.8	984.4
15°	960.7	962.0	961.4	970.7	970.1
17.5°	942.1	942.1	943.9	954.5	953.9
20°	919.0	920.2	924.6	934.6	936.4
22.5°	893.5	895.3	900.9	913.4	914.0
25°	865.4	869.8	876.6	889.1	890.3
27.5°	836.1	839.3	847.4	860.4	859.2
30°	801.9	809.3	817.4	828.0	829.3
32.5°	768.2	775.1	785.0	793.8	791.9
35°	732.7	738.9	750.2	755.1	752.0
37.5°	696.6	703.4	712.8	715.3	710.3
40°	657.3	666.0	672.9	672.9	669.2
42.5°	618.7	625.5	633.0	629.9	624.3
45°	578.8	586.9	593.1	585.7	579.4
47.5°	538.3	547.7	550.8	542.7	532.1
50°	499.1	509.0	509.7	499.1	490.3
52.5°	461.7	469.2	467.3	456.7	446.7
55°	422.4	429.3	426.2	414.3	406.2
57.5°	383.8	390.7	388.8	375.1	367.6
60°	347.0	350.8	348.3	337.7	329.0
62.5°	310.3	314.6	313.4	298.4	292.2
65°	274.8	279.8	274.8	264.2	258.6
67.5°	241.1	244.2	243.0	234.3	226.8
70°	205.6	210.0	208.1	198.1	192.5
72.5°	173.8	178.8	178.2	167.6	160.7
75°	141.4	147.7	147.0	137.1	134.0
77.5°	115.3	118.4	119.0	108.4	106.5
80°	86.6	91.0	89.1	79.8	76.6
82.5°	61.1	64.8	59.2	53.6	52.3
85°	38.0	38.6	33.6	30.5	29.3
87.5°	15.6	15.6	11.8	10.6	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)