

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: P229388

Luminaire Tested: **14ALNG-LD5-23-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36088)
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-SVPD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (84)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2204.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.29
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

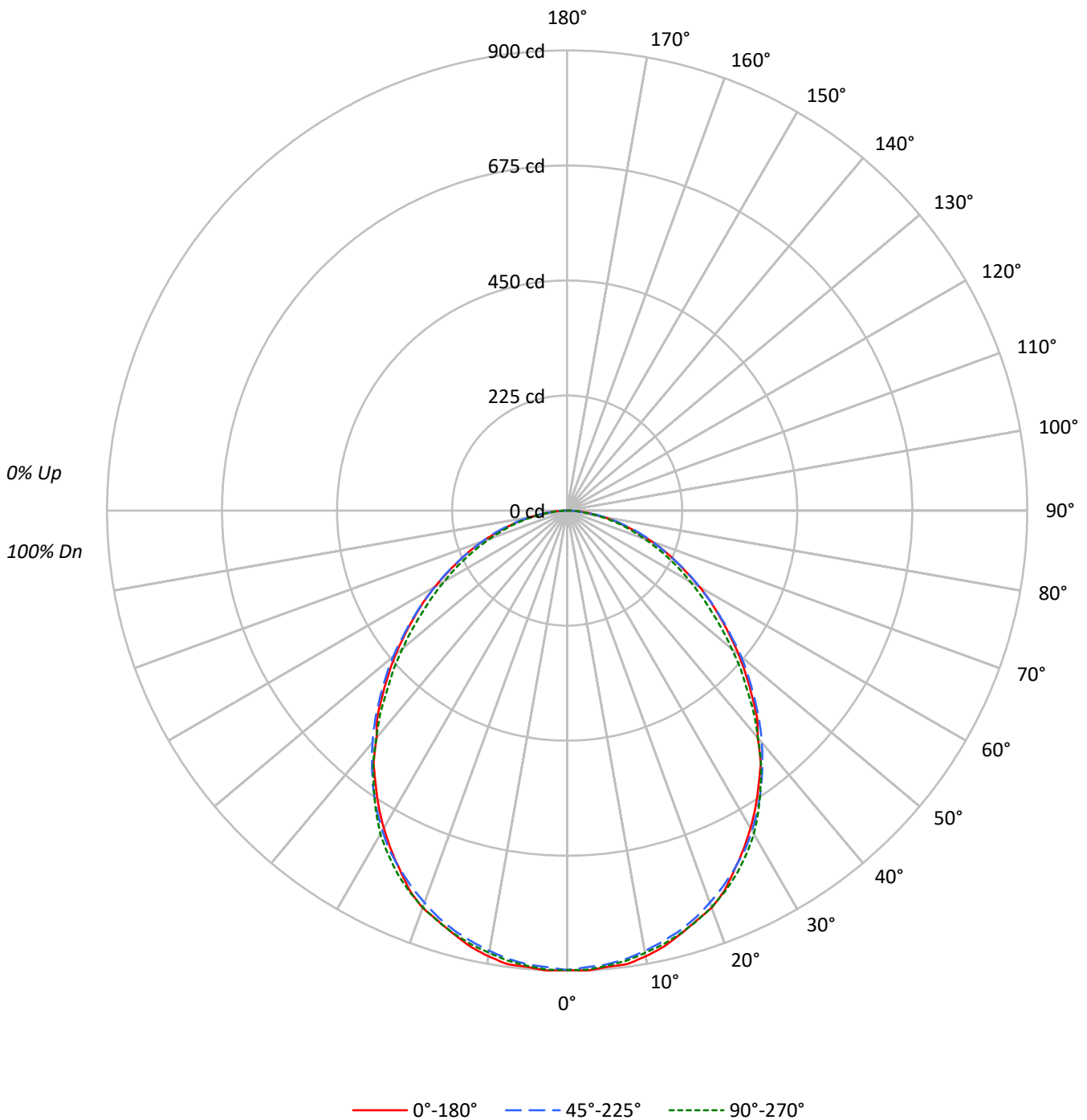
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229388

CATALOG NUMBER: 14ALNG-LD5-23-UNV-L830-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229388

CATALOG NUMBER: 14ALNG-LD5-23-UNV-L830-CD1-SVPD1-U

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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3028	3028	3028
5°	3030	3013	3023
10°	3029	2992	3005
15°	2991	2967	2987
20°	2964	2926	2960
25°	2880	2877	2916
30°	2790	2813	2843
35°	2685	2721	2713
40°	2551	2605	2555
45°	2434	2466	2375
50°	2295	2330	2204
55°	2149	2166	2025
60°	2018	2012	1869
65°	1867	1867	1730
70°	1731	1731	1579
75°	1549	1600	1450
80°	1378	1434	1248
85°	1187	1040	928



TEST NUMBER: P229388

CATALOG NUMBER: 14ALNG-LD5-23-UNV-L830-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.9
10°-20°	241.1	10.9
20°-30°	357.6	16.2
30°-40°	411.4	18.7
40°-50°	395.0	17.9
50°-60°	325.4	14.8
60°-70°	228.9	10.4
70°-80°	126.5	5.7
80°-90°	33.1	1.5
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°	683.6	31.0
0°-40°	1095.0	49.7
0°-60°	1815.4	82.4
0°-90°	2204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	896	894	891	895	894	85
15°	857	857	851	856	856	242
25°	775	769	774	783	784	357
35°	653	653	662	664	660	408
45°	511	516	518	509	498	394
55°	366	372	369	354	345	328
65°	234	238	234	222	217	233
75°	119	124	123	113	111	127
85°	31	32	27	24	24	35
90°	0	0	0	0	0	



TEST NUMBER: P229388

CATALOG NUMBER: 14ALNG-LD5-23-UNV-L830-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	898.6	898.6	898.6	898.6	898.6
2.5°	900.5	897.6	893.8	898.6	898.6
5°	895.7	893.8	890.9	894.8	893.8
7.5°	894.8	889.0	884.2	889.0	888.0
10°	885.2	883.2	874.6	879.4	878.4
12.5°	873.6	871.7	863.1	868.8	868.8
15°	857.3	857.3	850.6	856.3	856.3
17.5°	841.0	840.0	835.2	841.9	841.9
20°	826.6	819.9	816.0	825.6	825.6
22.5°	804.5	795.9	795.9	807.4	806.4
25°	774.7	769.0	773.8	783.4	784.3
27.5°	746.9	744.0	750.7	759.4	758.4
30°	717.1	714.3	722.9	730.6	730.6
32.5°	686.4	684.5	693.1	699.9	696.0
35°	652.8	652.8	661.5	664.3	659.5
37.5°	622.1	621.1	626.9	627.9	623.1
40°	579.9	586.6	592.3	588.5	580.8
42.5°	550.1	552.0	555.9	548.2	541.5
45°	510.7	515.5	517.5	508.8	498.3
47.5°	474.3	480.0	481.0	468.5	460.8
50°	437.8	444.5	444.5	429.1	420.5
52.5°	401.3	408.0	405.1	393.6	382.1
55°	365.8	372.5	368.7	354.3	344.7
57.5°	333.1	337.9	334.1	320.7	311.1
60°	299.5	303.4	298.6	286.1	277.4
62.5°	265.0	269.8	266.9	254.4	247.7
65°	234.2	238.1	234.2	221.8	217.0
67.5°	205.4	206.4	204.5	194.9	188.2
70°	175.7	177.6	175.7	167.0	160.3
72.5°	145.9	148.8	150.7	141.1	134.4
75°	119.0	123.8	122.9	113.3	111.4
77.5°	94.1	99.8	97.9	89.3	87.4
80°	71.0	75.8	73.9	66.2	64.3
82.5°	49.0	52.8	49.0	45.1	43.2
85°	30.7	31.7	26.9	24.0	24.0
87.5°	13.4	11.5	9.6	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)