

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: P229389

Luminaire Tested: **14ALNG-LD5-26-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229389
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-LD5-26-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: 2476.0 lumens
Efficiency: N/A
Efficacy: 105.4 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

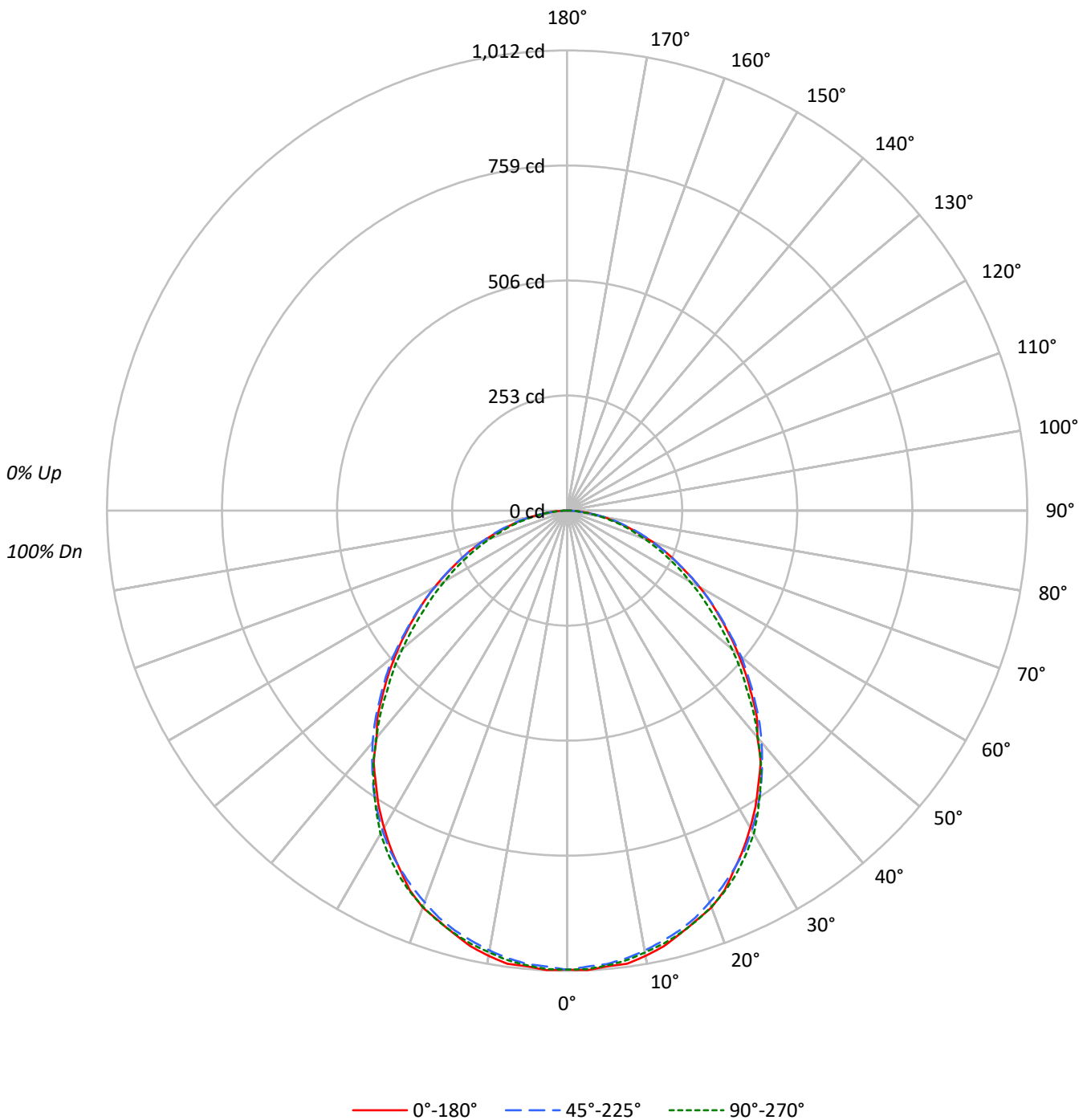
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3402	3402	3402
5°	3404	3385	3396
10°	3402	3362	3376
15°	3360	3334	3356
20°	3330	3287	3326
25°	3236	3232	3276
30°	3134	3160	3193
35°	3017	3057	3048
40°	2865	2927	2870
45°	2734	2770	2667
50°	2578	2618	2476
55°	2414	2433	2275
60°	2268	2260	2101
65°	2099	2099	1943
70°	1945	1945	1774
75°	1741	1797	1629
80°	1548	1611	1403
85°	1334	1168	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.9
10°-20°	270.9	10.9
20°-30°	401.7	16.2
30°-40°	462.2	18.7
40°-50°	443.7	17.9
50°-60°	365.6	14.8
60°-70°	257.2	10.4
70°-80°	142.2	5.7
80°-90°	37.2	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°	768.0	31.0
0°-40°	1230.2	49.7
0°-60°	2039.5	82.4
0°-90°	2476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1010	1010	1010	1010	1010	
5°	1006	1004	1001	1005	1004	96
15°	963	963	956	962	962	272
25°	870	864	869	880	881	401
35°	733	733	743	746	741	459
45°	574	579	581	572	560	443
55°	411	418	414	398	387	369
65°	263	268	263	249	244	262
75°	134	139	138	127	125	143
85°	34	36	30	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1011.6	1008.4	1004.1	1009.5	1009.5
5°	1006.3	1004.1	1000.9	1005.2	1004.1
7.5°	1005.2	998.7	993.3	998.7	997.6
10°	994.4	992.2	982.5	987.9	986.8
12.5°	981.4	979.3	969.6	976.1	976.1
15°	963.1	963.1	955.6	962.0	962.0
17.5°	944.8	943.7	938.3	945.9	945.9
20°	928.6	921.1	916.7	927.5	927.5
22.5°	903.8	894.1	894.1	907.0	906.0
25°	870.4	863.9	869.3	880.1	881.1
27.5°	839.1	835.8	843.4	853.1	852.0
30°	805.6	802.4	812.1	820.7	820.7
32.5°	771.1	769.0	778.7	786.2	781.9
35°	733.4	733.4	743.1	746.3	740.9
37.5°	698.9	697.8	704.3	705.3	700.0
40°	651.4	659.0	665.4	661.1	652.5
42.5°	618.0	620.1	624.5	615.8	608.3
45°	573.8	579.2	581.3	571.6	559.7
47.5°	532.8	539.3	540.3	526.3	517.7
50°	491.8	499.4	499.4	482.1	472.4
52.5°	450.8	458.4	455.1	442.2	429.2
55°	410.9	418.5	414.1	398.0	387.2
57.5°	374.2	379.6	375.3	360.2	349.4
60°	336.5	340.8	335.4	321.4	311.7
62.5°	297.7	303.1	299.8	285.8	278.3
65°	263.2	267.5	263.2	249.1	243.7
67.5°	230.8	231.9	229.7	218.9	211.4
70°	197.4	199.5	197.4	187.7	180.1
72.5°	163.9	167.2	169.3	158.5	151.0
75°	133.7	139.1	138.0	127.3	125.1
77.5°	105.7	112.2	110.0	100.3	98.1
80°	79.8	85.2	83.0	74.4	72.3
82.5°	55.0	59.3	55.0	50.7	48.5
85°	34.5	35.6	30.2	27.0	27.0
87.5°	15.1	12.9	10.8	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)