

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: P229394

Luminaire Tested: **14ALNG-LD5-26-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229394
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-L835-CD1-SVPD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (84)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.0 lumens
Efficiency: N/A
Efficacy: 109.7 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

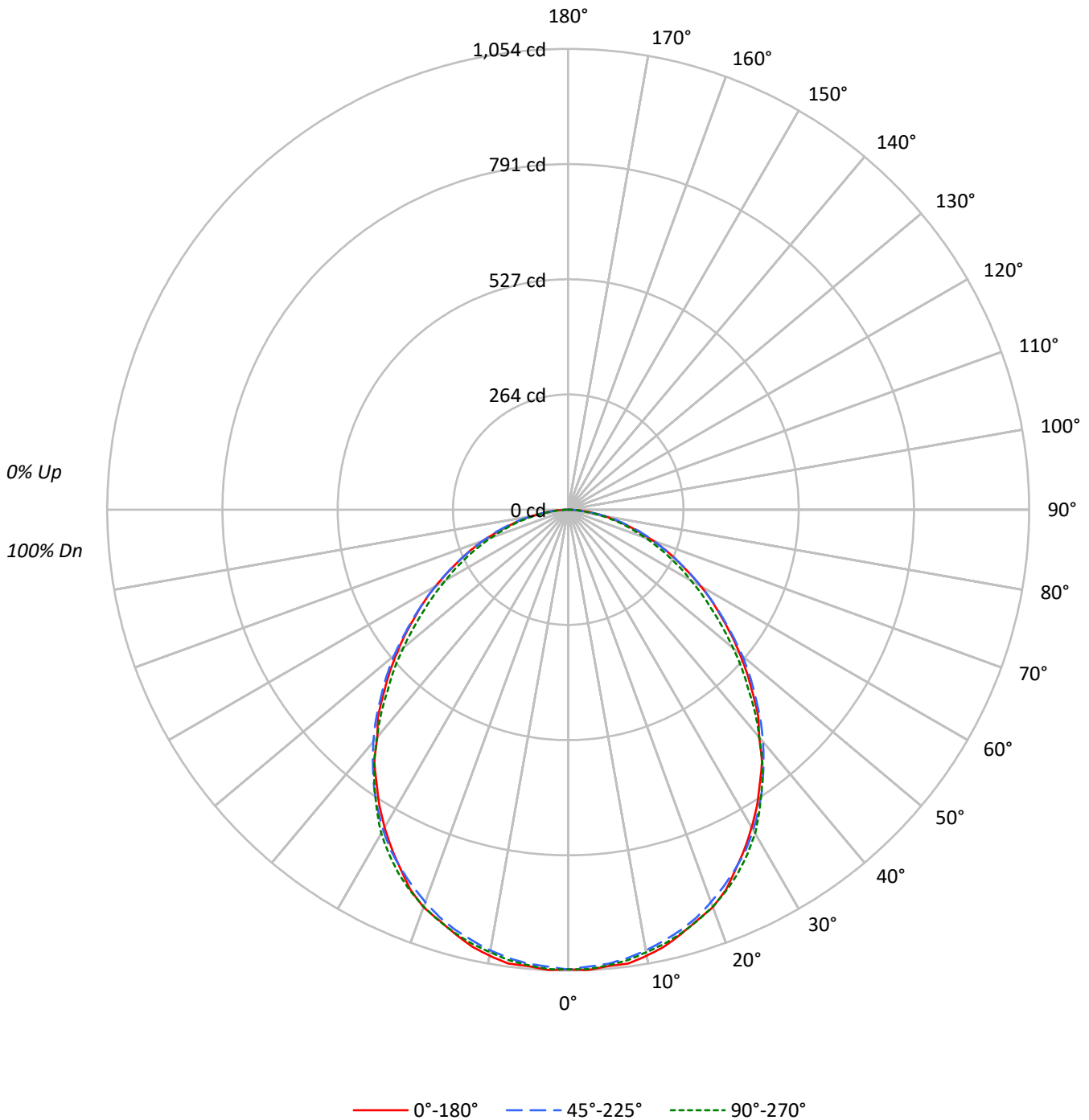
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3543	3543	3543
5°	3545	3526	3538
10°	3544	3502	3517
15°	3500	3472	3496
20°	3468	3424	3464
25°	3371	3366	3412
30°	3265	3291	3326
35°	3142	3184	3175
40°	2984	3049	2989
45°	2848	2885	2778
50°	2686	2726	2579
55°	2514	2534	2369
60°	2362	2355	2188
65°	2185	2185	2024
70°	2026	2026	1848
75°	1814	1872	1696
80°	1613	1678	1461
85°	1388	1218	1086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.9
10°-20°	282.2	10.9
20°-30°	418.4	16.2
30°-40°	481.5	18.7
40°-50°	462.1	17.9
50°-60°	380.8	14.8
60°-70°	267.9	10.4
70°-80°	148.1	5.7
80°-90°	38.7	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°	799.9	31.0
0°-40°	1281.4	49.7
0°-60°	2124.3	82.4
0°-90°	2579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1048	1046	1042	1047	1046	100
15°	1003	1003	995	1002	1002	283
25°	907	900	905	917	918	418
35°	764	764	774	777	772	478
45°	598	603	606	595	583	461
55°	428	436	431	414	403	384
65°	274	279	274	260	254	273
75°	139	145	144	133	130	149
85°	36	37	32	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.5	1051.5	1051.5	1051.5	1051.5
2.5°	1053.7	1050.4	1045.9	1051.5	1051.5
5°	1048.1	1045.9	1042.5	1047.0	1045.9
7.5°	1047.0	1040.2	1034.6	1040.2	1039.1
10°	1035.8	1033.5	1023.4	1029.0	1027.9
12.5°	1022.3	1020.0	1009.9	1016.7	1016.7
15°	1003.2	1003.2	995.3	1002.1	1002.1
17.5°	984.1	983.0	977.3	985.2	985.2
20°	967.2	959.4	954.9	966.1	966.1
22.5°	941.4	931.3	931.3	944.8	943.6
25°	906.6	899.8	905.4	916.7	917.8
27.5°	874.0	870.6	878.5	888.6	887.5
30°	839.2	835.8	845.9	854.9	854.9
32.5°	803.2	801.0	811.1	818.9	814.4
35°	763.9	763.9	774.0	777.4	771.8
37.5°	727.9	726.8	733.6	734.7	729.1
40°	678.5	686.4	693.1	688.6	679.6
42.5°	643.7	645.9	650.4	641.4	633.6
45°	597.6	603.3	605.5	595.4	583.0
47.5°	554.9	561.7	562.8	548.2	539.2
50°	512.3	520.1	520.1	502.2	492.0
52.5°	469.6	477.4	474.1	460.6	447.1
55°	428.0	435.9	431.4	414.5	403.3
57.5°	389.8	395.4	390.9	375.2	364.0
60°	350.5	355.0	349.4	334.8	324.7
62.5°	310.1	315.7	312.3	297.7	289.8
65°	274.1	278.6	274.1	259.5	253.9
67.5°	240.4	241.5	239.3	228.0	220.2
70°	205.6	207.8	205.6	195.5	187.6
72.5°	170.8	174.1	176.4	165.1	157.3
75°	139.3	144.9	143.8	132.6	130.3
77.5°	110.1	116.8	114.6	104.5	102.2
80°	83.1	88.7	86.5	77.5	75.3
82.5°	57.3	61.8	57.3	52.8	50.6
85°	35.9	37.1	31.5	28.1	28.1
87.5°	15.7	13.5	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)