

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: P229336

Luminaire Tested: **14ALNG-LD5-26-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229336
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-L840-CD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (84)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2634.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

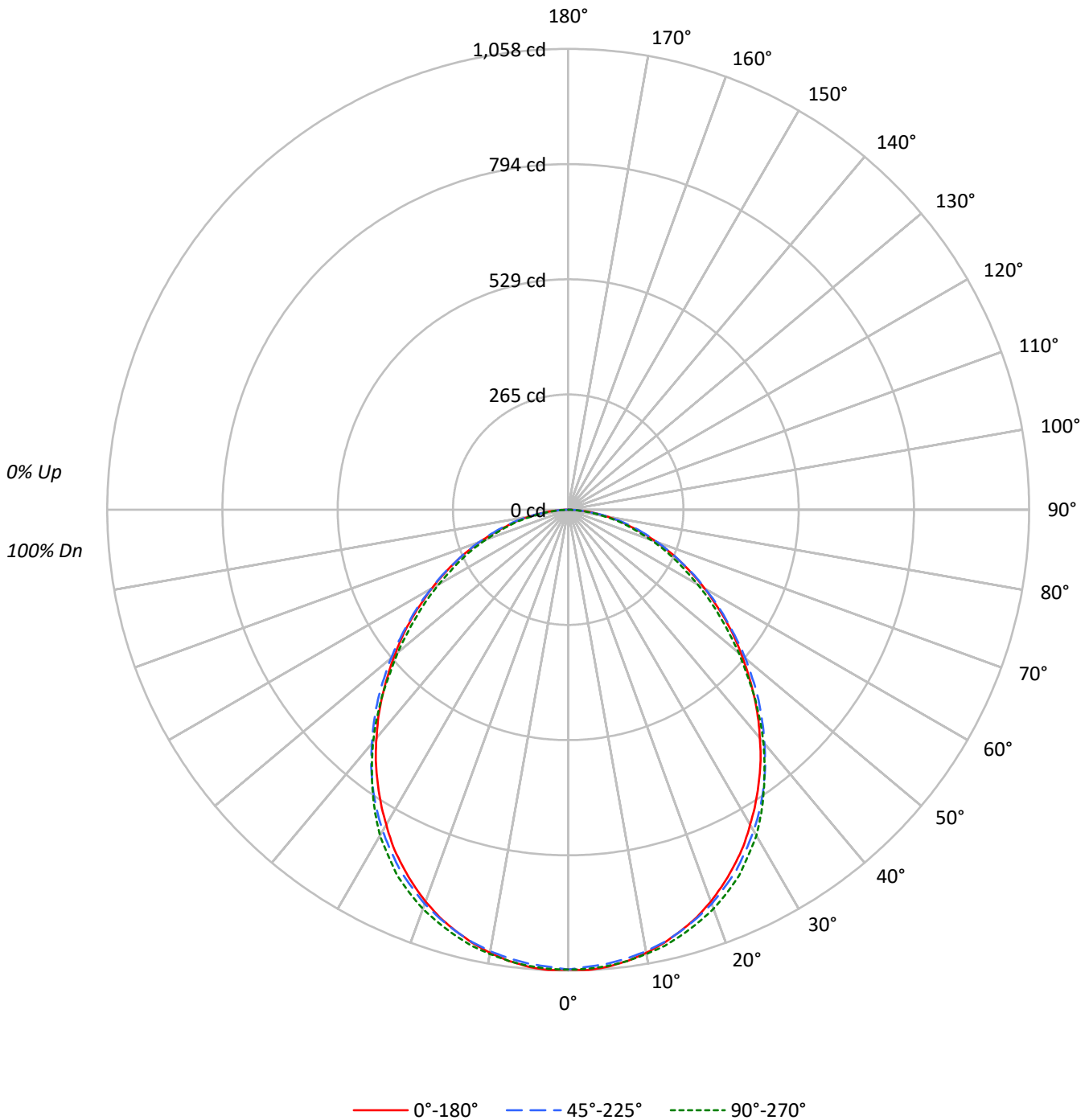
Input Watts (W): 23.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3558	3558	3558
5°	3562	3538	3556
10°	3535	3521	3544
15°	3491	3493	3525
20°	3432	3453	3497
25°	3351	3394	3448
30°	3250	3313	3361
35°	3139	3214	3222
40°	3011	3083	3065
45°	2873	2944	2876
50°	2725	2783	2677
55°	2585	2608	2486
60°	2436	2444	2309
65°	2282	2282	2147
70°	2109	2135	1975
75°	1918	1993	1816
80°	1750	1801	1548
85°	1531	1353	1179



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.7	3.8
10°-20°	283.3	10.8
20°-30°	420.6	16.0
30°-40°	485.9	18.4
40°-50°	470.8	17.9
50°-60°	393.1	14.9
60°-70°	281.0	10.7
70°-80°	157.7	6.0
80°-90°	42.0	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°	803.6	30.5
0°-40°	1289.4	49.0
0°-60°	2153.3	81.8
0°-90°	2634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1053	1051	1046	1052	1051	100
15°	1001	1002	1001	1011	1010	282
25°	901	906	913	926	927	415
35°	763	770	781	786	783	477
45°	603	611	618	610	604	465
55°	440	447	444	432	423	394
65°	286	291	286	275	269	284
75°	147	154	153	143	140	158
85°	40	40	35	32	30	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.8	1055.8	1055.8	1055.8	1055.8
2.5°	1057.7	1055.8	1050.0	1055.8	1055.1
5°	1053.2	1051.3	1046.1	1051.9	1051.3
7.5°	1044.8	1043.5	1038.9	1046.1	1044.8
10°	1033.1	1031.8	1029.2	1036.3	1035.7
12.5°	1018.2	1018.2	1016.9	1024.6	1025.3
15°	1000.6	1001.9	1001.3	1011.0	1010.4
17.5°	981.2	981.2	983.1	994.1	993.5
20°	957.2	958.5	963.0	973.4	975.3
22.5°	930.6	932.5	938.3	951.3	952.0
25°	901.4	905.9	913.0	926.0	927.3
27.5°	870.9	874.1	882.5	896.2	894.9
30°	835.2	842.9	851.4	862.4	863.7
32.5°	800.1	807.3	817.6	826.7	824.8
35°	763.1	769.6	781.3	786.5	783.2
37.5°	725.5	732.6	742.4	745.0	739.8
40°	684.6	693.7	700.8	700.8	696.9
42.5°	644.4	651.5	659.3	656.1	650.2
45°	602.8	611.3	617.8	610.0	603.5
47.5°	560.7	570.4	573.6	565.2	554.2
50°	519.8	530.2	530.8	519.8	510.7
52.5°	480.9	488.6	486.7	475.7	465.3
55°	440.0	447.1	443.9	431.5	423.1
57.5°	399.7	406.9	404.9	390.7	382.9
60°	361.4	365.3	362.7	351.7	342.6
62.5°	323.2	327.7	326.4	310.8	304.3
65°	286.2	291.4	286.2	275.1	269.3
67.5°	251.1	254.4	253.1	244.0	236.2
70°	214.1	218.7	216.7	206.4	200.5
72.5°	181.0	186.2	185.6	174.6	167.4
75°	147.3	153.8	153.1	142.8	139.5
77.5°	120.1	123.3	123.9	112.9	111.0
80°	90.2	94.7	92.8	83.1	79.8
82.5°	63.6	67.5	61.6	55.8	54.5
85°	39.6	40.2	35.0	31.8	30.5
87.5°	16.2	16.2	12.3	11.0	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)