

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: McGRAW-EDISON

Report Number: P529604

Luminaire Tested: **GALN-SA4D-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24186 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

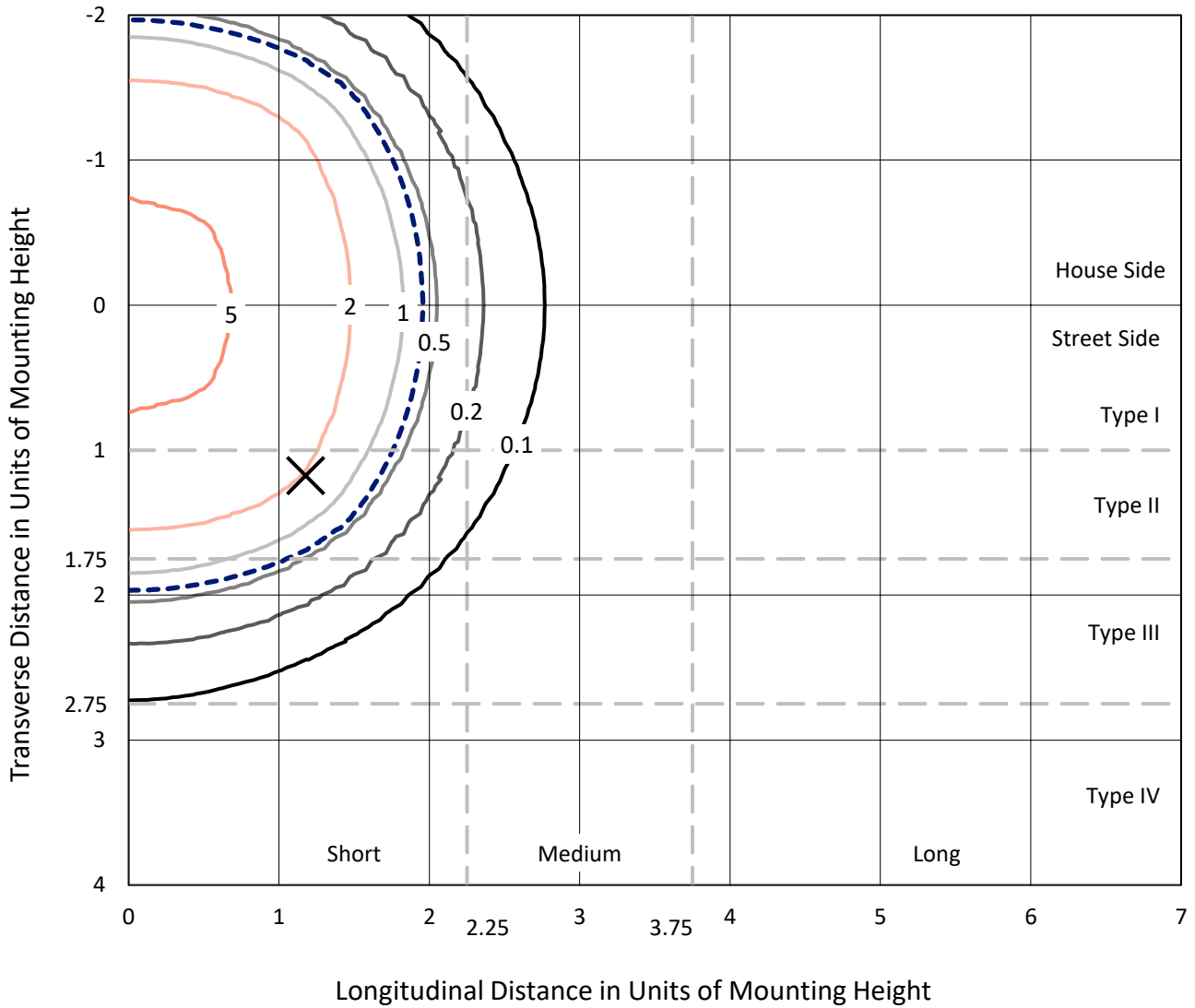
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

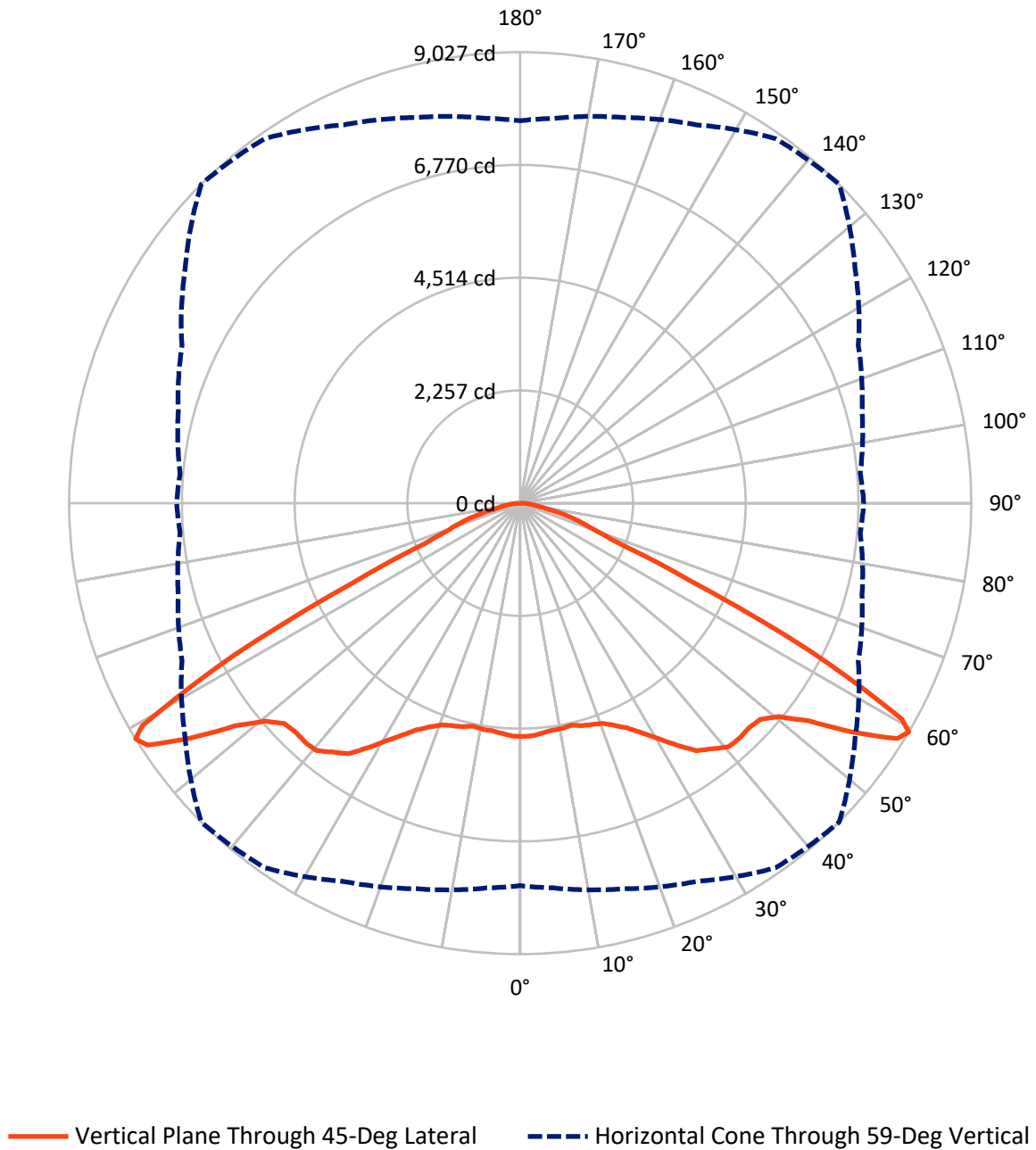
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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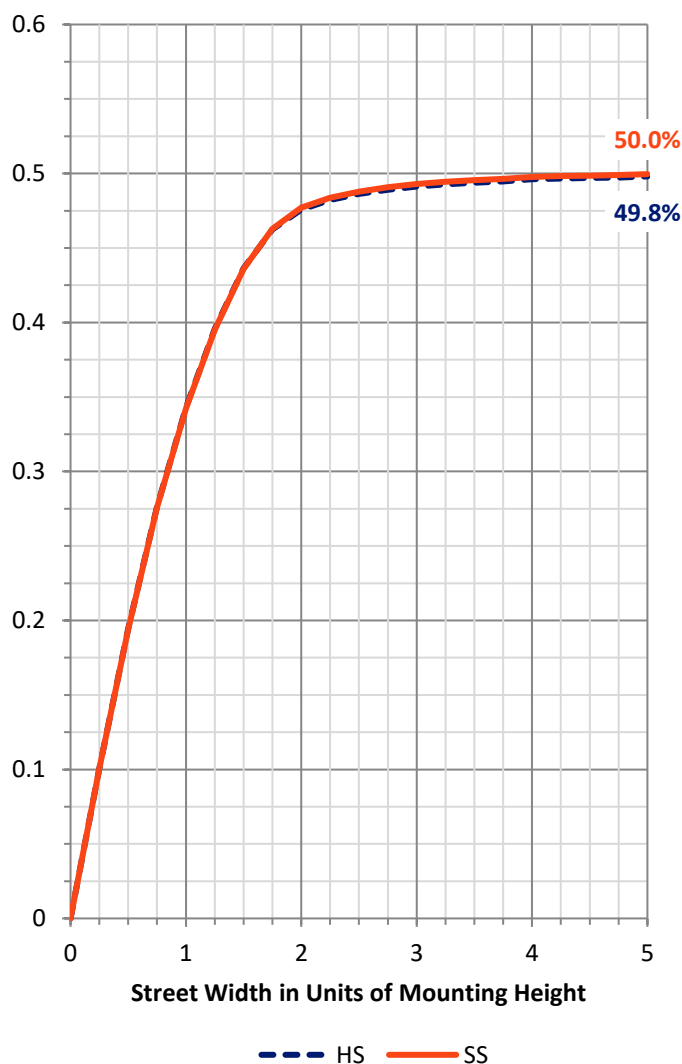
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12093.0	0.0	12093.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12093.0	0.0	12093.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24186.0	0.0	24186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.4	1.8
10°-20°	1309.6	5.4
20°-30°	2286.7	9.5
30°-40°	3652.2	15.1
40°-50°	4975.1	20.6
50°-60°	6727.6	27.8
60°-70°	3689.5	15.3
70°-80°	943.9	3.9
80°-90°	161.0	0.7
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°-90°	24186.0	100.0
0°-180°	24186.0	100.0

Coefficient of Utilization



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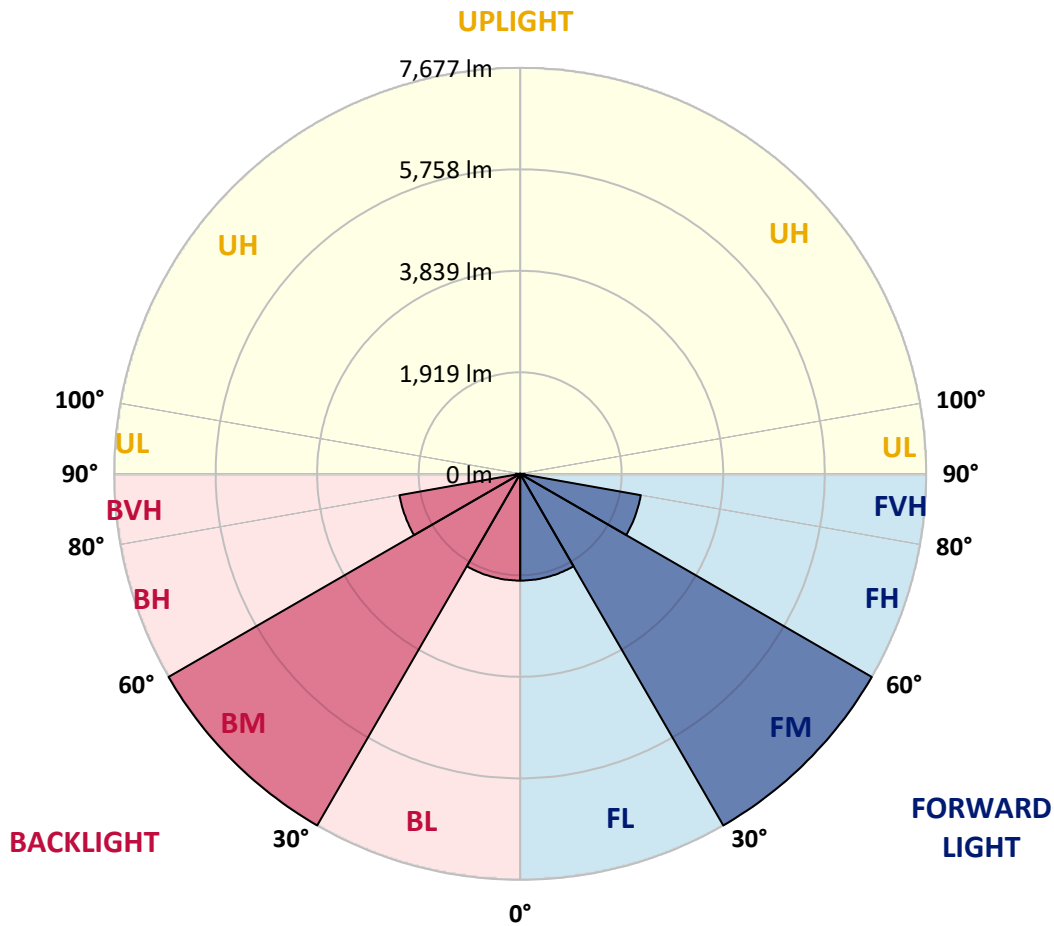
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.4	8.3			
FM (30°-60°)	7677.5	31.7			
FH (60°-80°)	2316.7	9.6			G2/5000
FVH (80°-90°)	80.5	0.3			G1/100
BL (0°-30°)	2018.4	8.3	B3/2500		
BM (30°-60°)	7677.5	31.7	B4/8500		
BH (60°-80°)	2316.7	9.6	B3/2500		G2/5000
BVH (80°-90°)	80.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4671.6	4671.6	4671.6	4671.6	4671.6	4671.6	4671.6	4671.6	4671.6	4671.6	4671.6
2.5°	4643.7	4677.8	4653.0	4674.7	4671.6	4662.3	4646.8	4637.5	4625.1	4643.7	4612.7
5°	4625.1	4653.0	4680.9	4643.7	4643.7	4625.1	4615.8	4597.2	4597.2	4594.1	4591.0
7.5°	4656.1	4628.2	4615.8	4622.0	4628.2	4587.9	4615.8	4578.6	4547.6	4569.3	4594.1
10°	4628.2	4640.6	4594.1	4615.8	4581.7	4587.9	4569.3	4594.1	4560.0	4560.0	4560.0
12.5°	4656.1	4622.0	4637.5	4622.0	4612.7	4560.0	4584.8	4556.9	4553.8	4584.8	4556.9
15°	4711.9	4656.1	4643.7	4612.7	4622.0	4622.0	4597.2	4600.3	4566.2	4584.8	4591.0
17.5°	4693.3	4662.3	4653.0	4615.8	4646.8	4656.1	4609.6	4578.6	4600.3	4597.2	4594.1
20°	4708.8	4721.2	4711.9	4718.1	4730.5	4705.7	4662.3	4618.9	4591.0	4631.3	4628.2
22.5°	4808.0	4795.6	4789.4	4783.2	4804.9	4829.7	4770.8	4702.6	4702.6	4730.5	4742.9
25°	4888.6	4885.5	4882.4	4910.3	4984.7	4984.7	4910.3	4823.5	4801.8	4820.4	4804.9
27.5°	5006.4	5040.5	5028.1	5077.7	5186.2	5211.0	5111.8	5009.5	4950.6	4928.9	4956.8
30°	5276.1	5235.8	5245.1	5297.8	5393.9	5474.5	5322.6	5214.1	5133.5	5130.4	5142.8
32.5°	5455.9	5486.9	5514.8	5564.4	5716.3	5778.2	5595.4	5418.7	5369.1	5341.2	5350.5
35°	5815.4	5787.5	5781.3	5830.9	5982.8	6085.1	5855.7	5700.8	5635.7	5697.7	5697.7
37.5°	6156.4	6078.9	6020.0	6085.1	6224.6	6237.0	6041.7	5958.0	5923.9	5995.2	5992.1
40°	6317.6	6311.4	6175.0	6212.2	6398.2	6416.8	6233.9	6134.7	6128.5	6221.5	6314.5
42.5°	6485.0	6426.1	6289.7	6314.5	6429.2	6435.4	6261.8	6233.9	6302.1	6392.0	6398.2
45°	6512.9	6463.3	6376.5	6314.5	6398.2	6416.8	6314.5	6333.1	6339.3	6447.8	6447.8
47.5°	6568.7	6562.5	6512.9	6466.4	6481.9	6466.4	6401.3	6429.2	6522.2	6574.9	6550.1
50°	6723.7	6658.6	6708.2	6667.9	6671.0	6714.4	6655.5	6683.4	6664.8	6618.3	6587.3
52.5°	7064.7	7033.7	7077.1	7105.0	7136.0	7235.2	7167.0	7018.2	6878.7	6754.7	6751.6
55°	7563.8	7585.5	7669.2	7811.8	7932.7	8090.8	7762.2	7405.7	7182.5	6987.2	6999.6
57.5°	8035.0	8019.5	8134.2	8459.7	8813.1	8893.7	8248.9	7740.5	7377.8	7253.8	7201.1
59°	7656.8	7731.2	7991.6	8354.3	8909.2	9027.0	8183.8	7467.7	7083.3	6832.2	6875.6
60°	7061.6	7089.5	7322.0	7827.3	8577.5	8779.0	7746.7	7046.1	6534.6	6388.9	6454.0
62.5°	4990.9	4969.2	5136.6	5548.9	6221.5	6494.3	5759.7	5266.8	4944.4	4783.2	4820.4
65°	2653.5	2752.7	2820.9	3078.2	3434.7	3723.0	3419.2	3205.3	3025.5	2892.2	2889.1
67.5°	1791.8	1779.4	1794.9	1853.8	1974.6	2055.2	2049.0	1940.5	1925.0	1900.3	1928.1
70°	1509.7	1503.5	1475.6	1475.6	1500.4	1519.0	1540.7	1553.1	1577.9	1608.9	1605.8
72.5°	1224.5	1209.0	1190.4	1181.1	1212.1	1221.4	1249.3	1261.7	1283.4	1280.3	1308.2
75°	809.1	809.1	830.8	855.6	864.9	883.5	886.6	923.8	923.8	930.0	905.2
77.5°	452.6	440.2	455.7	480.5	502.2	536.3	570.4	598.3	613.8	607.6	607.6
80°	263.5	263.5	279.0	306.9	334.8	365.8	390.6	412.3	427.8	421.6	409.2
82.5°	164.3	164.3	179.8	207.7	229.4	248.0	282.1	310.0	328.6	322.4	306.9
85°	83.7	83.7	102.3	120.9	148.8	161.2	158.1	145.7	142.6	127.1	127.1
87.5°	21.7	21.7	31.0	34.1	27.9	31.0	31.0	31.0	31.0	31.0	34.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)