

1: Performance by approach

Approach	NB	SB	SE	NW	All
Denied Del/Veh (s)	0.0	0.0	82.4	0.0	38.4
Total Del/Veh (s)	2.8	11.4	107.0	26.8	53.8
Stop Del/Veh (s)	1.5	8.7	105.7	24.0	51.7
Stop/Veh	0.32	0.96	0.84	0.88	0.82
Avg Speed (kph)	19	13	5	9	6
HC Emissions (g)	0	0	9	6	15
CO Emissions (g)	12	7	359	157	535
NOx Emissions (g)	2	1	28	19	50

2: Performance by approach

Approach	EB	WB	SB	All
Denied Del/Veh (s)	0.3	0.0	0.0	0.2
Total Del/Veh (s)	2.8	1.0	3.1	2.4
Stop Del/Veh (s)	0.0	0.0	2.4	0.5
Stop/Veh	0.00	0.00	0.27	0.06
Avg Speed (kph)	37	45	15	37
HC Emissions (g)	5	3	1	8
CO Emissions (g)	202	48	12	261
NOx Emissions (g)	18	8	1	27

3: Performance by approach

Approach	NB	NE	SW	All
Denied Del/Veh (s)	0.0	0.0	0.2	0.1
Total Del/Veh (s)	5.0	0.9	0.7	1.5
Stop Del/Veh (s)	4.4	0.0	0.0	0.7
Stop/Veh	0.44	0.00	0.00	0.07
Avg Speed (kph)	12	48	45	43
HC Emissions (g)	0	6	5	11
CO Emissions (g)	6	101	138	245
NOx Emissions (g)	1	17	14	32

4: Performance by approach

Approach	EB	All
Denied Del/Veh (s)	0.0	0.0
Total Del/Veh (s)	0.4	0.4
Stop Del/Veh (s)	0.0	0.0
Stop/Veh	0.00	0.00
Avg Speed (kph)	46	46
HC Emissions (g)	4	4
CO Emissions (g)	205	205
NOx Emissions (g)	12	12

5: Performance by approach

Approach	EB	SE	NW	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	1.5	1.8	21.1	12.8
Stop Del/Veh (s)	0.0	0.7	14.7	8.6
Stop/Veh	0.00	0.02	0.55	0.32
Avg Speed (kph)	33	31	11	17
HC Emissions (g)	0	7	3	11
CO Emissions (g)	6	278	88	373
NOx Emissions (g)	1	25	10	36

Total Network Performance

Denied Del/Veh (s)	26.2
Total Del/Veh (s)	45.0
Stop Del/Veh (s)	36.5
Stop/Veh	0.81
Avg Speed (kph)	25
HC Emissions (g)	138
CO Emissions (g)	4603
NOx Emissions (g)	457

Queuing and Blocking Report

Baseline

Centura metropolitana Cluj - Napoca

Anexa 2 - nod 16 - an 2045

Intersection: 1:

Movement	NB	NB	SB	SB	SE	SE	SE	NW	NW	NW
Directions Served	L	L	L	>	ULT	T	>	L	T	>
Maximum Queue (m)	9.2	13.2	33.2	16.9	204.9	199.1	9.1	61.8	67.5	9.2
Average Queue (m)	9.0	10.2	11.9	15.6	200.3	199.1	6.6	43.2	64.6	7.2
95th Queue (m)	9.4	12.8	30.3	17.0	204.1	199.1	12.3	59.9	68.1	13.1
Link Distance (m)	25.5	25.5	50.4		194.5	194.5		64.9	64.9	
Upstream Blk Time (%)					87	63		0	6	
Queuing Penalty (veh)					0	0		1	33	
Storage Bay Dist (m)				10.0			1.0			1.0
Storage Blk Time (%)			10	44		1	2		32	2
Queuing Penalty (veh)			23	39		2	7		38	14

Intersection: 2:

Movement	SB	B16
Directions Served	R	T
Maximum Queue (m)	37.0	13.4
Average Queue (m)	24.6	2.7
95th Queue (m)	35.5	11.5
Link Distance (m)	21.9	177.8
Upstream Blk Time (%)	5	
Queuing Penalty (veh)	33	
Storage Bay Dist (m)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Queuing and Blocking Report Baseline

Centura metropolitana Cluj - Napoca

Anexa 2 - nod 16 - an 2045

Intersection: 3:

Movement	NB
Directions Served	R
Maximum Queue (m)	35.4
Average Queue (m)	24.3
95th Queue (m)	36.5
Link Distance (m)	20.4
Upstream Blk Time (%)	8
Queuing Penalty (veh)	32
Storage Bay Dist (m)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 4:

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

Queuing and Blocking Report Baseline

Centura metropolitana Cluj - Napoca
Anexa 2 - nod 16 - an 2045

Intersection: 5:

Movement	NW	B18
Directions Served	T	T
Maximum Queue (m)	89.3	151.0
Average Queue (m)	86.9	100.1
95th Queue (m)	89.3	159.8
Link Distance (m)	64.3	205.0
Upstream Blk Time (%)	45	
Queuing Penalty (veh)	0	
Storage Bay Dist (m)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Network Summary

Network wide Queuing Penalty: 223